

COUNTY PALATINE OF LANCASTER.

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# REPORT

OF THE



# MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1923,

WITH STATISTICAL INFORMATION FROM REPORTS OF  
DISTRICT MEDICAL OFFICERS OF HEALTH.

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*(Presented to the County Council, November 6th, 1924.)*



COUNTY COUNCIL.

PRESTON:

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1924.



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# REPORT

## OF THE

# MEDICAL OFFICER OF HEALTH

For the Year ended December 31st, 1923.

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*To the County Council of the County Palatine of Lancaster.*

I have the honour to submit for your consideration the Thirty-fifth Annual Report on the health, sanitary condition, and administration of the Administrative County of Lancaster for the year ended 31st December, 1923.

**Area of Administrative County.**—The area of the Administrative County on the 31st December, 1923, was 1,054,508 statute acres. No change affecting the area of the County took place during the year under report. The acreage of each County district, taken from the Census Report, 1921, is given in Table “B,” page 16.

**Population.**—The estimated populations of the Administrative County upon which the County birth and death rates for the year 1923 are calculated are as follow :—

For calculating the *birth-rate* ... 1,773,700

For calculating the *death-rate* ... 1,772,658

The population at the date of the Census (1921) of the County area as at present constituted was 1,745,891.

Table “B,” page 16, shows the Census enumeration of each County district, and also the estimated population for the year under report.

The following table gives the area, population, persons per acre, &c., of the County on the 31st December, 1923, distributed between the boroughs, urban and rural districts :—

	Area in Acres.	Population.			Persons per Acre.	Acres per Person
		Census, 1921.	Estimate of Population, 1923.			
			For Birth-rate.	For Death-rate.	Calculated on estimated population.	
Municipal Boroughs (19).	86,426	580,924	582,380	582,380	6·73	0·14
Urban Districts (83) .....	255,458	922,749	945,320	944,529	3·70	0·27
Rural Districts (19) .....	712,624	242,218	246,000	245,749	0·34	2·89
Administrative County .....	1,054,508	1,745,891	1,773,700	1,772,658	1·68	0·59

**Summary of County Statistics, 1923.**—The following tabular statement compares the County birth and death rates of 1923 with the preceding year and with the mean of the ten years 1913-1922 :—

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<i>Mean of 10 years</i>				
1913-1922 .....	19·33	14·13	0·88	100
1922.....	18·11	13·23	0·77	85
1923.....	17·29	12·30	0·70	80
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	2·04	—1·83	—0·18	—20
Previous Year .....	—0·82	—0·93	—0·07	—5

**Births and Birth-rates.**—During the year ended 31st December, 1923, the births registered in, or belonging to, the area of the Administrative County numbered 30,672, against 32,011 in the previous year—a decrease of 1,339.

The sex of the children born is shown below :—

	Males.	Females.	Total.
Urban Districts .....	13,684	12,932	26,616
Rural Districts .....	2,050	2,006	4,056
Administrative County ...	15,734	14,938	30,672

The births of males again outnumbered those of females, the excess representing 2·59 per cent. ; in the years 1922 and 1921 the percentage was 1·93.

The excess of births over deaths in 1923 was 8,853.

The tabular statement here given shows the downward movement since demobilisation after the war in the total births registered :—

Year.	Total No. of Births in County.	Year.	Total No. of Births in County.
1913 ...	38,844	1918 ...	27,736
1914 ...	38,507	1919 ...	28,799
1915 ..	34,595	1920 ...	39,767
1916 ...	32,695	1921 ...	36,558
1917 ...	28,420	1922 ...	32,011
1923 ...	30,672		

The following table shows the County, urban, and rural birth-rates for the year 1923, also the rates for each year in the preceding decennial period. For comparative purposes, the birth-rates for the whole country are also given :—

	Birth-rate per 1,000 of the Estimated Population.										
	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.
Urban Districts	22·41	22·19	19·91	18·54	16·27	16·09	16·58	22·30	21·06	18·28	17·42
Rural Districts..	20·86	20·95	18·95	18·59	16·08	16·06	16·88	22·98	18·94	17·04	16·48
Administrative County .....	22·20	22·02	19·78	18·54	16·25	16·08	16·62	22·97	20·76	18·11	17·29
England and Wales.....	23·9	23·8	21·8	21·6	17·8	17·7	18·5	25·4	22·4	20·6	19·7

The mean County birth-rates for quinquennial periods, compared with the year 1923, are shown below :—

1893-1897 ...	29.42	1908-1912 ...	23.11
1898-1902 ...	26.98	1913-1917 ...	19.75
1903-1907 ...	25.32	1918-1922 ...	18.90
1923 ...		17.29.	

The County birth-rate for the year under report is, with the exception of the war years, the lowest on record, and is 0.82 per 1,000 of the estimated population below the rate of the previous year, 0.86 per 1,000 in the urban districts and 0.56 in the rural districts. The County birth-rate was 2.5 per 1,000 below the rate for England and Wales. Compared with the mean of the 10 years 1913-1922, the County rate in 1923 showed a decline of 2.04 per 1,000 (urban districts 1.94, rural districts 2.25).

Diagram No. 1 appended illustrates the fall in the County birth-rate since 1889, and compares the rate year by year with that for the whole of England and Wales. The fall in the County birth-rate during the period covered by the chart represents no less than 14.7 per 1,000 of the population, and this figure, calculated on the present population, represents a diminution of over 26,000 births per annum.

The number of births in 1923 and the birth-rates of each borough, urban and rural district are given in Table "B," page 16. In nine districts the births were fewer in number than the deaths.

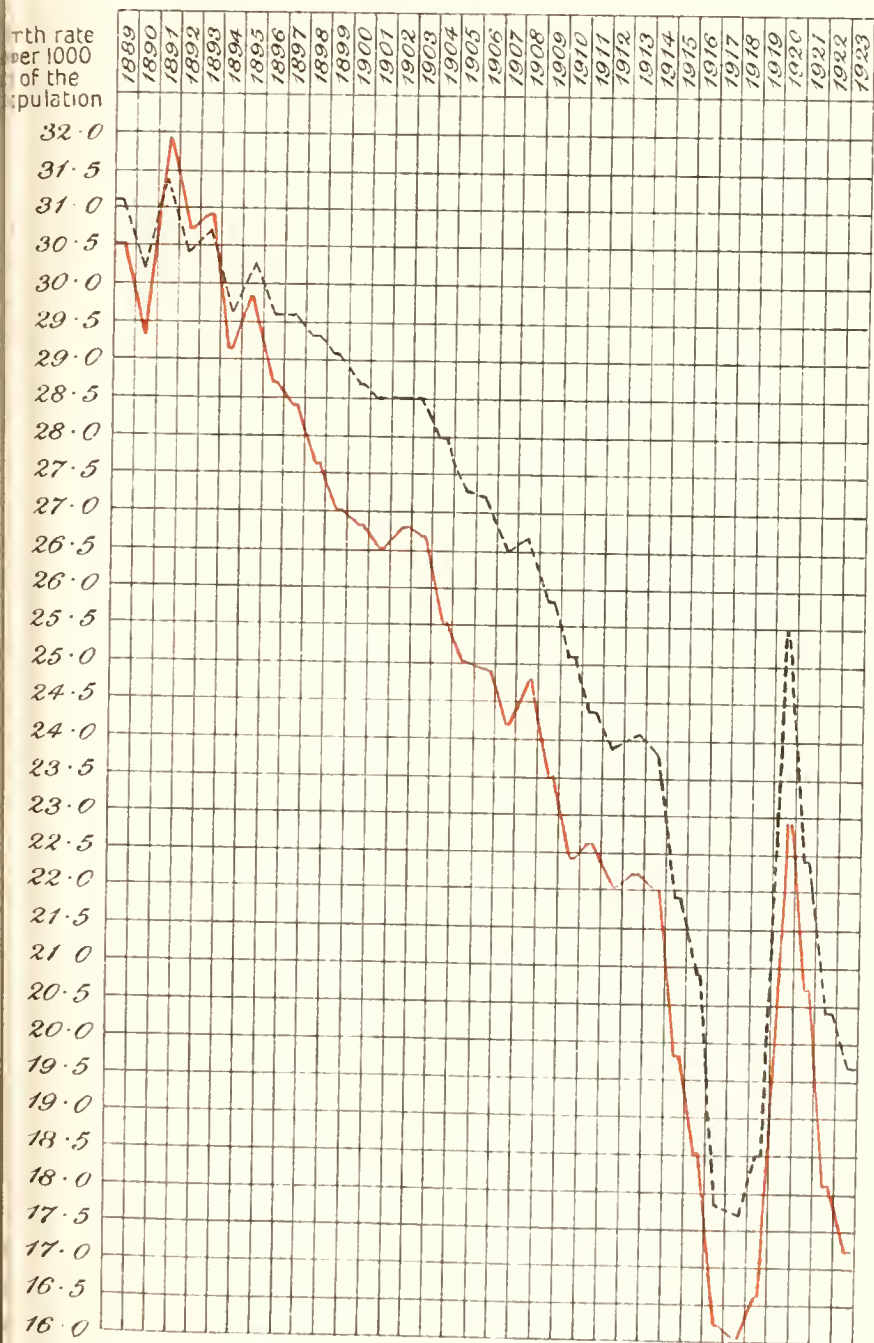
The following districts had the highest birth-rates in 1923 :—Widnes (B.) 25.3, Irlam 24.7, Haydock 24.6, Ince-in-Makerfield 22.9, Aspull and Litherland each 22.8, and Upholland 22.5.

The lowest birth-rates were recorded in Grange-over-Sands 8.9, Fulwood 9.2, Lytham Saint Anne's (B.) 11.5, and Heysham 12.6.



DIAGRAM SHOWING THE BIRTH RATE PER 1000 OF THE POPULATION IN  
THE ADMINISTRATIVE COUNTY (RED), AND FOR  
COMPARATIVE PURPOSES ENGLAND AND WALES (BLACK).

1889-1923.







## ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE A.—CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING THE YEAR ENDED  
31ST DECEMBER, 1923.

CAUSES OF DEATH.		ADMINIS- TRATIVE COUNTY.  TOTAL DEATHS.	Sex.	AGGREGATE OF URBAN DISTRICTS.										AGGREGATE OF RURAL DISTRICTS.									
				YEARS.										YEARS.									
				All Ages.	0—	1—	2—	5—	15—	25—	45—	65—	75—	All Ages.	0—	1—	2—	5—	15—	25—	45—	65—	75—
ALL CAUSES .. .. .	Col.	21819	M. F.	9631 9372	1293 902	312 260	283 230	285 274	430 392	1154 1097	2782 2449	1953 2063	1139 1705	1432 1384	170 103	35 28	22 21	37 38	64 49	151 170	382 328	298 318	273 329
Enteric Fever .. .. .	1	38	M. F.	17 18	.. ..	.. ..	.. ..	.. 2	2 8	7 4	8 3	.. 1	..	1 2	.. ..	.. ..	.. ..	.. ..	1 ..	.. ..	.. 2	.. ..	..
Smallpox .. .. .	2	..	M. F.	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	..
Measles .. .. .	3	131	M. F.	67 53	17 14	29 23	18 10	2 5	.. ..	.. 1	1 ..	.. ..	..	6 5	2 1	2 2	1 1	1 1	.. ..	.. ..	.. ..	.. ..	..
Scarlet fever .. .. .	4	58	M. F.	21 31	2 ..	3 2	7 12	7 11	1 3	1 2	.. 1	.. ..	..	4 2	.. ..	.. ..	.. ..	3 2	1 ..	.. ..	.. ..	.. ..	..
Whooping cough .. .. .	5	208	M. F.	94 91	42 40	26 29	22 18	4 4	.. ..	.. ..	.. ..	.. ..	..	10 13	6 5	4 4	.. 4	.. ..	.. ..	.. ..	.. ..	.. ..	..
Diphtheria .. .. .	6	96	M. F.	47 43	6 1	5 4	20 20	15 18	1 ..	.. ..	.. ..	.. ..	..	4 2	.. ..	.. ..	2 ..	1 ..	1 1	.. 1	.. ..	.. ..	..
Influenza .. .. .	7	670	M. F.	287 307	14 5	3 6	7 4	6 4	21 12	53 63	106 91	55 79	22 43	44 32	.. ..	.. ..	.. ..	1 1	4 ..	9 10	18 8	7 6	5 7
Encephalitis lethargica .. .. .	8	37	M. F.	22 12	.. ..	.. ..	4 1	5 1	2 1	8 1	3 7	.. 1	..	3 ..	.. ..	.. ..	.. ..	.. ..	1 ..	.. ..	2 ..	.. ..	..
Meningococcal meningitis .. .. .	9	12	M. F.	4 7	.. ..	.. 1	2 ..	2 3	.. 2	.. ..	.. 1	.. ..	..	.. 1	.. 1	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	..
Tuberculosis of respiratory system .. .. .	10	1250	M. F.	632 471	1 1	4 2	.. 6	11 29	113 147	272 196	199 77	29 12	3 1	72 75	.. ..	.. ..	.. 2	2 1	22 18	21 38	24 14	3 1	.. 1
Other tuberculous diseases .. .. .	11	412	M. F.	212 156	19 14	28 15	31 13	46 39	33 25	28 35	20 13	6 ..	1 2	20 24	2 1	2 3	1 2	4 10	2 2	5 2	3 2	1 ..	.. 2
Cancer, malignant disease .. .. .	12	2076	M. F.	768 1025	.. 2	1 2	2 2	.. ..	9 4	42 92	395 506	256 286	63 131	134 149	.. ..	1 ..	.. ..	1 ..	1 ..	5 11	63 66	50 47	13 25
Rheumatic fever .. .. .	13	111	M. F.	50 47	.. ..	.. 1	3 ..	13 16	7 10	15 13	12 5	.. ..	.. 2	3 11	.. ..	.. ..	.. ..	.. 3	1 4	1 4	.. ..	1 ..	.. ..
Diabetes .. .. .	14	257	M. F.	101 121	.. ..	.. ..	.. 1	1 6	14 5	16 15	31 58	32 30	7 6	13 22	.. ..	1 ..	.. ..	.. ..	.. ..	.. 2	7 13	5 5	.. 2
Cerebral hæmorrhage, &c. .. .. .	15	1492	M. F.	581 715	.. 1	.. ..	1 ..	1 1	3 ..	14 30	214 223	225 286	123 174	76 120	.. ..	.. ..	.. ..	.. ..	.. ..	1 1	23 40	25 44	27 35
Heart disease .. .. .	16	2707	M. F.	1063 1272	2 ..	.. ..	3 2	26 12	32 35	127 133	417 482	316 370	140 238	176 196	.. ..	.. ..	.. ..	1 5	4 6	13 10	52 54	63 72	43 49
Arterio-sclerosis .. .. .	17	678	M. F.	336 244	.. ..	.. ..	.. ..	.. ..	.. ..	3 1	99 40	156 104	78 99	58 40	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	15 7	17 11	26 22
Bronchitis .. .. .	18	1968	M. F.	851 918	105 90	30 26	15 11	4 4	7 3	38 25	191 171	267 284	194 304	97 102	15 9	2 ..	3 ..	.. ..	.. ..	3 7	19 16	25 31	30 39
Pneumonia (all forms) .. .. .	19	1848	M. F.	972 646	201 108	95 85	61 55	37 27	50 28	170 79	237 124	87 83	34 57	136 94	13 13	10 12	5 5	5 3	5 2	28 13	45 19	17 18	8 9
Other respiratory diseases .. .. .	20	280	M. F.	119 109	5 6	9 2	7 6	3 2	4 3	17 14	42 29	21 28	11 19	25 27	.. 1	.. 1	.. 4	.. ..	1 2	4 6	7 4	7 3	6 6
Ulcer of stomach or duodenum .. .. .	21	127	M. F.	83 29	.. ..	.. ..	.. ..	.. ..	7 2	22 10	46 11	8 5	.. 1	9 6	.. ..	.. ..	.. ..	.. ..	1 ..	4 2	3 3	.. 1	..
Diarrhœa, &c. .. .. .	22	326	M. F.	160 137	100 66	23 13	3 6	.. 7	1 3	7 9	7 13	8 11	11 9	15 14	9 5	2 ..	2 ..	.. ..	.. 1	.. 1	1 3	.. 3	1 1
Appendicitis and typhlitis .. .. .	23	145	M. F.	69 52	.. ..	.. ..	2 1	14 13	21 10	10 13	19 12	3 2	.. 1	16 8	.. ..	.. ..	2 ..	3 2	2 1	4 2	5 2	.. 1	..
Cirrhosis of liver .. .. .	24	81	M. F.	60 12	.. ..	.. ..	.. ..	.. ..	.. ..	6 ..	37 9	11 3	6 ..	6 3	.. ..	.. ..	.. ..	.. ..	.. ..	3 1	2 1	1 1	..
Acute and chronic nephritis .. .. .	25	638	M. F.	276 282	.. 1	3 3	3 5	4 5	6 12	48 34	131 132	66 68	15 22	44 36	1 ..	.. ..	.. ..	2 2	.. 1	8 8	15 11	13 12	5 2
Puerperal sepsis .. .. .	26	42	M. F.	.. 37	.. ..	.. ..	.. ..	.. ..	.. 6	.. 31	.. ..	.. ..	.. ..	.. 5	.. ..	.. ..	.. ..	.. ..	.. ..	.. 5	.. ..	.. ..	..
Other accidents and diseases of pregnancy and parturition .. .. .	27	94	M. F.	.. 83	.. ..	.. ..	.. ..	.. ..	.. 10	.. 72	.. 1	.. ..	.. ..	.. 11	.. ..	.. ..	.. ..	.. ..	1 ..	10 ..	.. ..	.. ..	..
Congenital debility and mal-formation, premature birth .. .. .	28	1068	M. F.	536 398	528 395	2 1	1 ..	3 1	1 ..	.. 1	1 ..	.. ..	.. ..	79 55	76 52	1 3	1 ..	1 ..	.. ..	.. ..	.. ..	.. ..	..
Suicide .. .. .	29	205	M. F.	138 40	.. ..	.. ..	.. ..	.. ..	9 3	34 17	64 19	25 1	6 ..	16 11	.. ..	.. ..	.. ..	.. ..	1 ..	4 7	8 3	1 ..	2 1
Other deaths from violence .. .. .	30	582	M. F.	342 156	5 7	15 7	30 16	34 20	36 7	77 11	96 32	37 26	12 30	62 22	2 1	2 ..	3 2	6 3	8 3	20 2	14 2	6 4	1 5
Other defined diseases .. .. .	31	4026	M. F.	1648 1804	244 150	31 37	39 39	46 43	48 51	129 188	369 366	332 364	410 566	290 284	43 13	7 3	2 1	6 5	8 7	21 26	50 53	49 55	104 121
Causes ill-defined or unknown .. .. .	32	156	M. F.	75 56	2 1	5 1	2 2	1 1	2 2	10 7	37 23	13 19	3 ..	13 12	1 1	1 ..	.. ..	.. ..	.. ..	.. 2	5 5	6 3	.. 1

**ILLEGITIMATE BIRTHS.**—The births registered in 1923 of illegitimate children numbered 1,095, or 186 less than the total recorded in the preceding year. The percentage to *total* births was 3·57, against 4·0 last year, 4·11 in 1921, and 4·33 in 1920.

**Deaths and Death-rates.**—The total number of deaths registered in the Administrative County in the year 1923, after correction for inward and outward transfers, was 21,819, as compared with 23,379 in the year 1922—a reduction of 1,560 deaths.

The sex distribution of the persons dying in 1923 is shown below :—

	Males.	Females.	Total.
Urban Districts .....	9,631	9,372	19,003
Rural Districts .....	1,432	1,384	2,816
Administrative County ...	11,063	10,756	21,819

The County deaths in 1923 at various age periods are given below :—

Under 1 Year.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and under 75.	75 and upwards.	Total
2,468	635	556	634	935	2,572	5,941	4,632	3,446	21,819

Table “A,” here inserted, is a classified statement of the causes of death in 1923, distributed in age groups, and distinguishing the sexes, for the aggregate urban and rural districts.



The following table gives the County birth and death rates for the year 1923, and also those for England and Wales :—

		BIRTH-RATE per 1,000 of the Population	DEATH-RATE per 1,000 of the Population.	RATE OF INFANT MORTALITY measured by the proportion of deaths of Infants under 1 year to 1,000 births
Administrative County of Lancaster	Urban Districts ...	17.42	12.44	82
	Rural Districts ...	16.48	11.45	67
	Urban and Rural Districts combined	<b>17.29</b>	<b>12.30</b>	<b>80</b>
England and Wales ... ..		19.7	11.6	69

The table below gives the death-rates of the County, distinguishing the urban and rural rates, and also gives the rates for England and Wales, from 1913 to 1923 :—

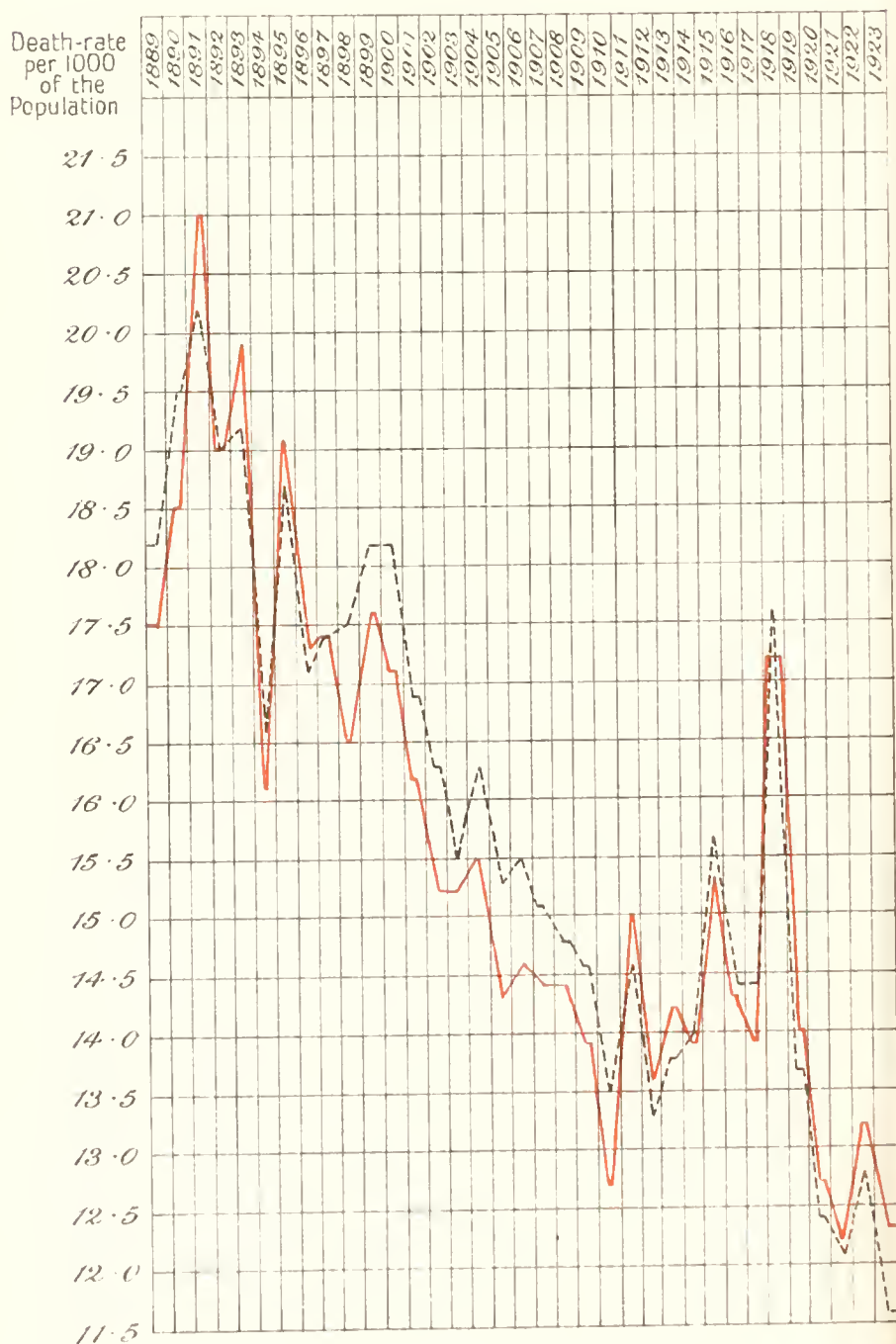
	Death-rate per 1,000 of the Estimated Population										
	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.
Urban Districts	14.39	14.17	15.60	14.47	14.05	17.40	14.01	12.83	12.31	13.43	<b>12.44</b>
Rural Districts	13.00	12.53	13.57	13.32	13.56	16.41	14.40	12.19	11.97	11.99	<b>11.45</b>
Administrative County	14.20	13.95	15.32	14.31	13.98	17.26	14.06	12.74	12.27	13.23	<b>12.30</b>
England and Wales...	13.4	13.7	14.8	14.0	14.4	17.6	13.8	12.4	12.1	12.9	<b>11.6</b>

The County death-rate for the year under report, 12.30 per 1,000 of the population, is the lowest on record, with the exception of the year 1921, when it was 12.27. The rate for 1923 was 0.93 per 1,000 less than in the preceding year, and 1.83 below the mean of the ten years 1913-1922.



DIAGRAM SHOWING THE DEATH RATE PER 1000 OF THE POPULATION IN  
THE ADMINISTRATIVE COUNTY (RED), AND FOR  
COMPARATIVE PURPOSES ENGLAND AND WALES (BLACK).

1889-1923.





The relative importance of various diseases or groups of diseases is shown in the following statement :—

	No. of deaths in 1923.	Percentage to total deaths.
Heart disease ... ..	2,707	12·4 per cent.
Cancer, malignant disease..	2,076	9·5 „
Bronehitis ... ..	1,968	9·0 „
Pneumonia (all forms) ...	1,848	8·4 „
Tuberculosis (all forms) ...	1,662	7·6 „
Congenital debility and malformation, premature birth ... ..	1,068	4·8 „
*Principal infectious diseases	749	3·4 „
Influenza ... ..	670	3·0 „

\*Includes smallpox, measles, scarlet fever, whooping-cough, diphtheria, enteric fever, and diarrhoea (under 2 years).

Decreases were recorded in the number of fatalities in 1923 compared with 1922 in the following diseases :—Influenza 391, bronchitis 273, measles 223, pneumonia 166, heart disease 130, tuberculosis of the respiratory system 112.

Diagram No. 2, here inserted, shows the County death-rate for the 35 years 1889-1923, and also the rate for England and Wales. The fall in the County death-rate, 8·7 per 1,000 of the population, represents a saving of about 15,400 lives per annum.

The highest death-rates in the year under report were recorded in :—Croston 18·4, Grange-over-Sands 17·9, Little Lever 17·4, Morecambe (B.) 16·6, Heywood (B.) and Trawden each 16·5, and Whitworth 16·0.

Extending over a period of ten years the following districts had the highest mortality averages :—Wardle 18·4, Lees 17·5, Whitworth 17·4, Ince-in-Makerfield 17·0, Heywood (B.) and Widnes (B.) each 16·9, Ashton-under-Lyne (B.) 16·7, Kirkham 16·5, Milnrow 16·3, Bacup (B.) 16·2, and Aspull 16·1.

Low death-rates in 1923 were reported from Little Crosby 5·1, Huyton-with-Roby 8·6, Irlam 8·8, Warrington (R) 9·1, Sefton (R.) 9·3, and Fleetwood, Haydock and Whiston (R.) each 9·5. Covering a period of ten years, the lowest death-rates amongst the County districts were in Little Crosby 10·3, Great Crosby and Urmston each 10·7, Preesall 11·3, Nelson (B.) and Stretford each 11·6, Irlam 11·7, and Prestwich 11·8.

Details of the deaths in the various sanitary areas, classified under certain headings, are given in Table "B," here inserted, and the mortality rates of each district in 1923 are compared with the preceding year and with the mean of the ten years 1913-1922 on pages 101 to 141.

**TRANSFERABLE DEATHS.**—During the year under report the following "transfers" were made :—3,496 persons who having a fixed or usual residence in the Administrative County died in a district other than that in which they resided, and these (known as inward transfers) have been allocated to their proper districts; 3,938 deaths occurring in the County area of persons not belonging thereto were transferred to the districts to which they belonged. In the year 1922, the transfers were :—Inward, 3,552, Outward, 3,775.

**Infant Mortality.**—The number of deaths of infants under the age of one year in the Administrative County area in the year 1923 was 2,468, or 11·31 per cent. of the total deaths at all ages.

In the preceding year there were 2,748 deaths of infants (11·75 per cent of total deaths), 3,241 in 1921 (15·01 per cent) and 3,634 in 1920 (16·48 per cent.).

The principal causes of mortality amongst infants in 1923 and the preceding four years are shown in the following table :—







TABLE B.—Continued.

DISTRICTS.	Area in Statute Acres.	Population at all ages.		Births.				Deaths.				Infant Mortality.				Tuberculosis of Respiratory System. Death rate per 1,000.	Mortality from subjoined Causes.																																		
		Census, 1921.	Estimate of Population for 1923		Number Registered.			Birth-rate per 1,000.	No. of Illegitimate Births.	Number Registered.			Death-rate per 1,000.	Number of Deaths under One Year	Mortality per 1,000 Registered Births.		Number of Deaths of Illegitimate Children.	Enteric fever.	Smallpox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Influenza.	Encephalitis lethargica.	Meningococcal meningitis.	Tuberculosis of respiratory system.	Other tuberculous diseases.	Cancer malignant disease.	Rheumatic fever.	Diabetes.	Cerebral hemorrhage, &c.	Heart disease.	Arterio-sclerosis.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Ulcer of Stomach or Duodenum.	Diarrhoea, &c. (under 5 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Acute and chronic nephritis.	Pericardial aneurysm.	Other accidents and diseases of infancy and childhood.	Congenital debility or premature birth.	Suicide.	Other deaths from violence.	Other defined diseases.	Cases ill-defined or unknown.	Tuberculosis.	Other causes included in the foregoing.
			*For Birth-rate.	†For Death-rate.	M.	F.	Total.			M.	F.	Total.																																							
Abingdon	5050	37806	38980	286	316	602	17.4	20	251	277	528	13.5	47	78	4	0.56	..	..	1	1	..	1	14	1	1	22	10	59	5	4	37	50	25	44	45	11	3	2	4	1	18	2	1	21	7	11	116	7			
..	2594	17620	17970	163	148	311	17.3	14	104	112	216	12.0	25	80	3	0.94	..	..	..	..	3	1	6	1	..	17	6	18	1	2	18	26	7	18	16	2	1	..	..	..	8	..	..	9	3	4	49	..			
..	1009	13878	14170	139	156	294	20.7	7	95	92	187	13.1	32	108	4	0.63	..	..	1	..	3	1	5	1	..	9	2	14	..	5	10	33	5	15	20	1	..	2	..	2	5	1	1	17	1	4	29	..			
..	2057	44242	45270	307	394	791	17.4	21	262	228	490	10.8	42	53	4	0.94	2	..	2	..	1	1	19	1	..	43	10	58	1	6	35	62	11	46	33	3	6	5	3	1	8	2	2	22	1	19	86	1			
..	1072	16973	17280	163	138	301	17.4	16	106	102	208	12.0	32	106	2	1.33	..	..	1	..	1	6	12	1	..	23	3	22	4	4	8	15	10	17	18	1	1	4	1	..	8	..	..	15	1	3	29	..			
..	1504	27894	28890	279	238	517	17.8	22	163	186	349	12.0	36	69	3	0.79	..	..	3	..	3	1	12	..	..	23	6	34	1	4	20	46	18	41	35	6	1	5	6	2	6	1	2	17	1	4	46	2			
..	2565	19438	19900	248	191	439	22.0	15	102	88	190	9.5	29	66	3	0.70	..	..	..	..	..	3	5	2	..	14	4	22	..	3	17	24	1	16	12	2	..	..	3	1	1	3	..	..	17	..	8	27	5		
..	5613	6318	6311	54	37	91	14.4	3	28	35	63	9.9	..	Nil	..	0.79	..	..	..	..	..	..	3	..	..	5	..	10	..	..	5	14	2	1	7	..	..	..	..	3	..	..	..	..	..	11	2	..			
..	2116	6595	6798   6007	39	24	63	9.2	3	39	51	90	14.9	4	63	1	0.99	..	..	..	..	..	..	2	..	..	6	1	11	1	..	10	12	3	7	6	..	1	..	..	..	2	1	..	2	1	..	22	2	..		
..	1679	7183	7552	77	83	160	21.1	6	32	41	73	9.6	10	62	..	0.92	..	..	2	..	..	1	1	..	..	7	4	3	..	2	2	9	1	3	12	..	..	..	..	..	..	..	4	..	3	17	2	..			
..	1883	2920	2005	13	5	18	8.9	..	18	18	36	17.9	..	Nil	..	0.49	..	..	..	..	..	2	2	..	..	1	3	5	..	2	1	2	7	1	1	..	..	..	..	..	..	..	1	1	7	..	1	..			
..	1867	13721	13650	95	108	203	14.8	6	70	67	137	10.0	14	68	1	0.80	..	..	..	..	..	..	4	1	1	11	4	20	1	2	10	19	6	7	12	..	1	1	1	1	1	..	1	..	1	6	..	2	25	..	
..	2868	13605	13970	109	109	218	15.6	5	90	105	195	13.9	19	87	2	0.57	..	..	3	..	2	3	8	1	..	8	2	19	1	5	15	16	4	12	24	1	2	3	2	2	5	1	3	5	1	4	37	6			
..	8203	17186	17710	123	120	243	13.7	8	133	149	282	15.9	22	90	1	0.67	..	..	2	..	..	..	14	..	1	12	12	35	1	2	20	19	9	22	8	6	2	3	1	1	8	..	..	7	2	8	56	1			
..	2411	10330	10930	156	113	269	24.6	8	56	48	104	9.5	22	81	..	0.36	..	..	..	2	2	2	..	..	..	4	2	5	1	1	4	6	1	11	13	1	1	3	..	..	1	..	1	9	1	3	28	2			
..	1974	5027	3950	21	29	50	12.6	1	25	25	50	12.6	2	40	..	0.25	..	..	..	..	..	..	4	..	..	1	2	3	..	2	5	8	2	3	3	2	4	1	1	1	2	1	..	..	..	..	5	..			
..	3658	26693	27030	226	229	455	16.8	27	220	227	447	16.5	47	103	1	1.25	1	..	..	..	..	6	17	..	..	34	6	44	2	4	30	64	13	51	1	5	..	4	5	4	14	..	2	15	4	8	60	3			
..	2612	23563	24450	253	216	469	19.1	8	193	178	371	15.1	68	144	1	0.73	1	..	4	2	4	3	4	1	..	18	5	20	3	5	18	46	9	46	72	..	4	2	..	1	4	..	2	24	6	8	57	2			
..	3257	15621	15940	140	122	262	16.4	5	88	70	158	9.9	14	53	1	0.43	..	..	2	..	1	3	11	..	..	7	9	19	..	..	6	14	5	19	15	1	..	1	..	2	6	..	..	7	2	3	24	1			
..	637	8074	8328	66	55	121	14.5	3	56	60	116	13.9	14	115	..	0.72	1	..	..	..	5	..	..	..	..	6	2	12	..	2	5	13	4	17	9	4	1	1	..	2	1	..	..	4	1	1	24	1			
..	3653	5172	5194	41	34	75	14.4	2	26	19	45	8.6	2	26	..	0.57	..	..	..	..	..	..	..	..	1	3	1	4	..	1	2	10	2	1	6	1	2	2	..	..	..	..	..	..	1	7	1				
..	2320	22855	24020	291	261	552	22.9	23	161	146	307	12.7	60	108	4	0.83	2	..	..	2	6	3	14	..	1	20	4	12	1	2	21	21	7	33	42	3	1	4	6	1	7	..	2	22	2	14	49	5			
..	4717	9471	11300	148	132	280	24.7	3	55	45	100	8.8	19	67	1	0.35	..	..	1	..	..	..	6	1	..	4	8	8	1	1	3	8	3	3	3	3	1	4	1	1	1	..	..	7	1	8	29	..			
..	1004	9610	10130	101	91	192	18.9	6	72	74	146	14.4	17	88	..	1.08	..	..	..	1	1	..	4	..	..	11	3	16	..	..	7	9	3	18	12	1	..	2	1	4	..	..	7	1	4	41	..				
..	857	3815	3836	47	39	86	22.4	10	25	26	51	13.2	4	46	1	0.26	..	..	..	2	..	1	2	..	..	1	2	1	..	1	5	5	..	5	..	..	..	..	..	..	..	..	3	..	1	22	..				
..	3482	40212	40990	360	346	706	17.2	43	244	253	497	12.1	59	83	8	1.07	3	..	1	1	7	1	6	..	..	44	10	55	1	4	43	55	12	46	34	4	..	4	4	2	7	1	1	17	3	8	122	1			



TABLE B—Continued.





TABLE B.—Continued.

[illegible]







Causes of Infant Deaths.	Deaths of Infants under 1 year.				
	1919.	1920.	1921.	1922.	1923.
Total—All Causes ...	2697	3634	3241	2748	2468
Measles ...	28	85	21	84	34
Scarlet Fever ...	1	...	...	3	2
Whooping Cough ...	25	91	147	92	93
Diphtheria ...	5	7	9	6	7
Influenza ...	87	23	10	48	19
Encephalitis Lethargica	In these years diseases not separately specified.				
Meningococcal Meningitis					
Tuberculosis of Respiratory System ...	6	8	4	6	2
Other Tuberculous Diseases ...	28	46	34	47	36
Bronchitis ...	288	388	244	216	219
Pneumonia (all forms) ...	352	414	365	384	335
Other Respiratory Diseases ...	15	20	20	23	12
Diarrhoea, &c. ...	233	396	414	210	180
Congenital Debility and Malformation, Premature Birth ...	1094	1404	1333	1124	1051
Other Causes ...	535	752	636	499	477

The following table gives the infant death-rates for the Administrative County and for England and Wales from 1913 to 1923 :—

	Rate of Deaths of Children under 1 Year to 1,000 Births.										
	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.
Urban Districts.	128	115	123	101	96	101	94	95	90	87	82
Rural Districts..	100	96	94	82	94	90	88	67	76	75	67
Administrative County .....	124	112	119	99	96	100	93	91	88	85	80
England and Wales.....	109	105	110	91	97	97	89	80	83	77	69



In the table below, the County infant mortality in 1923 is contrasted with preceding quinquennia :—

Years.	Birth-rate per 1,000 of Estimated Population.	INFANT MORTALITY.		
		Rate of Deaths under One Year.		Percentage of Infant Deaths to Total Deaths at all ages.
		Per 1,000 Births.	Per 1,000 of the Estimated Population.	
1893—1897	29.42	161	4.72	26.34
1898—1902	26.98	161	4.35	26.24
1903—1907	25.32	138	3.52	23.77
1908—1912	23.11	122	2.83	20.31
1913—1917	19.75	110	2.29	15.98
1918—1922	18.90	91	1.78	13.04
<b>1923</b>	<b>17.29</b>	<b>80</b>	<b>1.39</b>	<b>11.31</b>

The infant mortality rate in the year 1923, calculated per 1,000 registered births, was the lowest on record for the Administrative County, viz., 80, as compared with 85 per 1,000 births last year, 124 per 1,000 ten years ago, 140 per 1,000 twenty years ago, and 177 per 1,000 in the year 1893 (thirty years ago).

Diagram No. 3 outlines the County infant mortality rate each year since 1889, distinguishing the urban and rural districts.

A comparison of the County infant death-rate in 1923 with that of 1893 shows a saving of not less than 2,800 lives per annum.

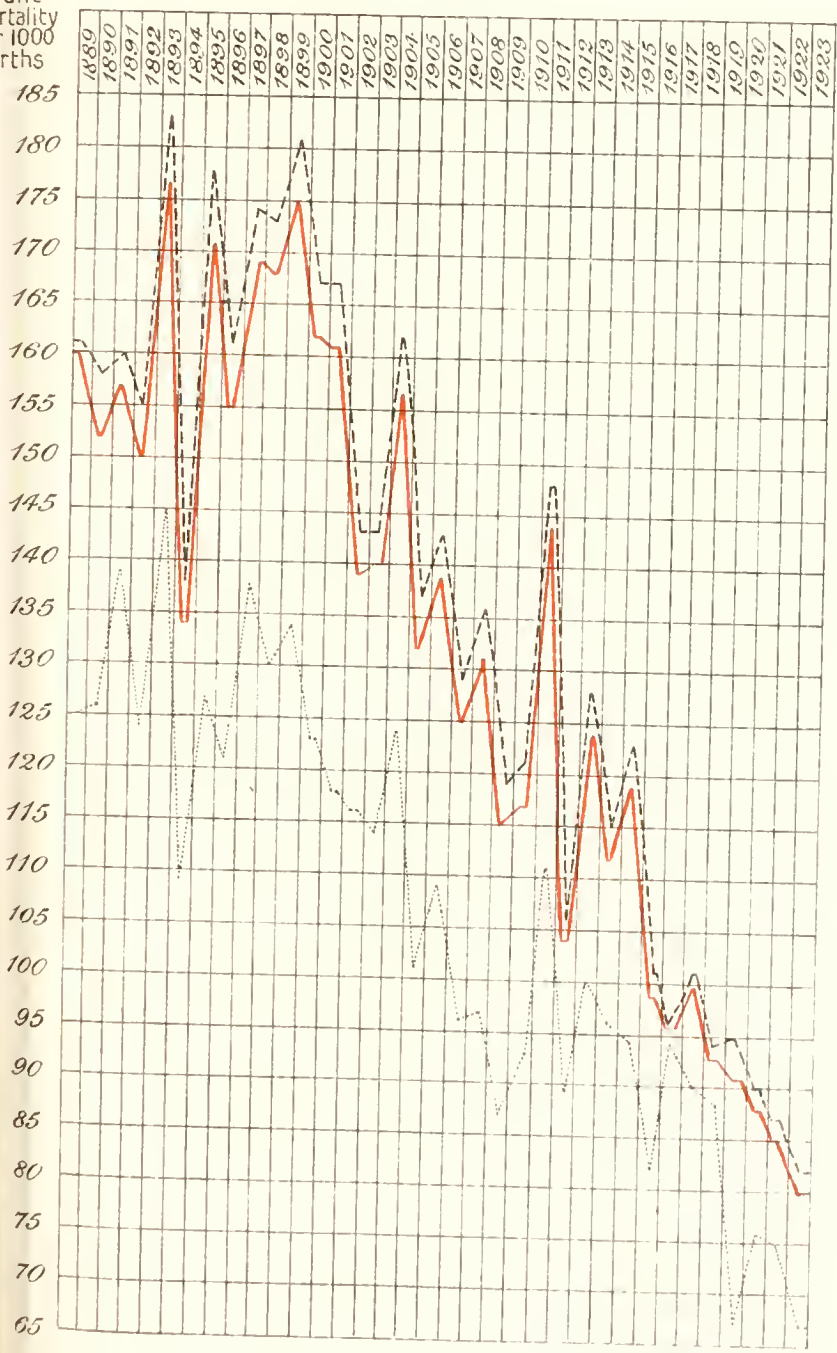
In the year under report the infant mortality rate in 16 County districts was under 50 per 1,000 births, in 7 districts it was between 50 and 100, in 26 districts between 100 and 150, and two districts had rates over 150.

The highest district infant death-rate was at Little Lever where the deaths numbered 22, giving a rate of 271 per 1,000.

DIAGRAM SHOWING THE INFANT MORTALITY PER 1000 BIRTHS IN THE ADMINISTRATIVE COUNTY (RED LINE), IN THE URBAN DISTRICTS (INTERMITTENT LINE) AND IN THE RURAL DISTRICTS (DOTTED LINE).

1889-1923.

Infant mortality per 1000 Births









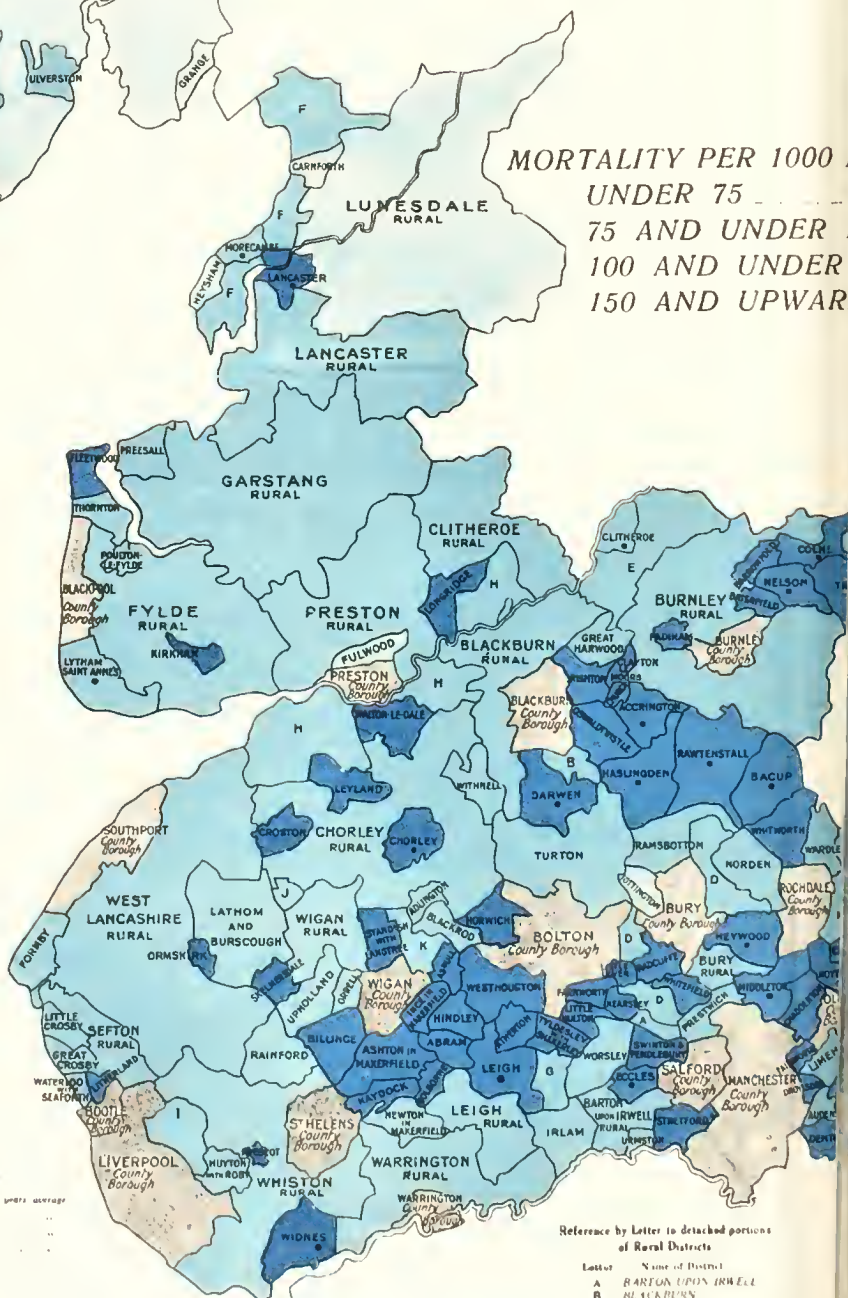
A

## COUNTY OF LANCASTER.

DIAGRAM SHEWING THE  
**INFANT MORTALITY**  
 IN THE  
 ADMINISTRATIVE COUNTY AREA.

A 10 YEARS. 1891-1900

MORTALITY PER 1000 E  
 UNDER 75  
 75 AND UNDER 1  
 100 AND UNDER  
 150 AND UPWARD



NOTE

	8 years average
BARROWFORD	3
BRIERFIELD	3
CARRIFORTH	6
COLEBURN	6
HEYSHAM	7
HURST	5
IRIAM	6
RAIDLIFE	8
TOTTINGTON	2
URAMSTON	6
WHITEFIELD	6
WITHNELL	8
WORSLEY	6

Reference by Letter to detached portions of Rural Districts

Letter	Name of District
A	BARROW UPON IRWELL
B	BLACKBURN
C	BURNLEY
D	BURY
E	CLITHEROE
F	LANCASTER
G	PRESTON
H	SEFTON
I	WEST LANCASHIRE
J	WIGAN
K	WIDNES

NON-COUNTY BOROUGHS •

# COUNTY OF LANCASTER.

## DIAGRAM SHEWING THE INFANT MORTALITY

IN THE  
ADMINISTRATIVE COUNTY AREA.

B - 10 YEARS, 1914-1923.

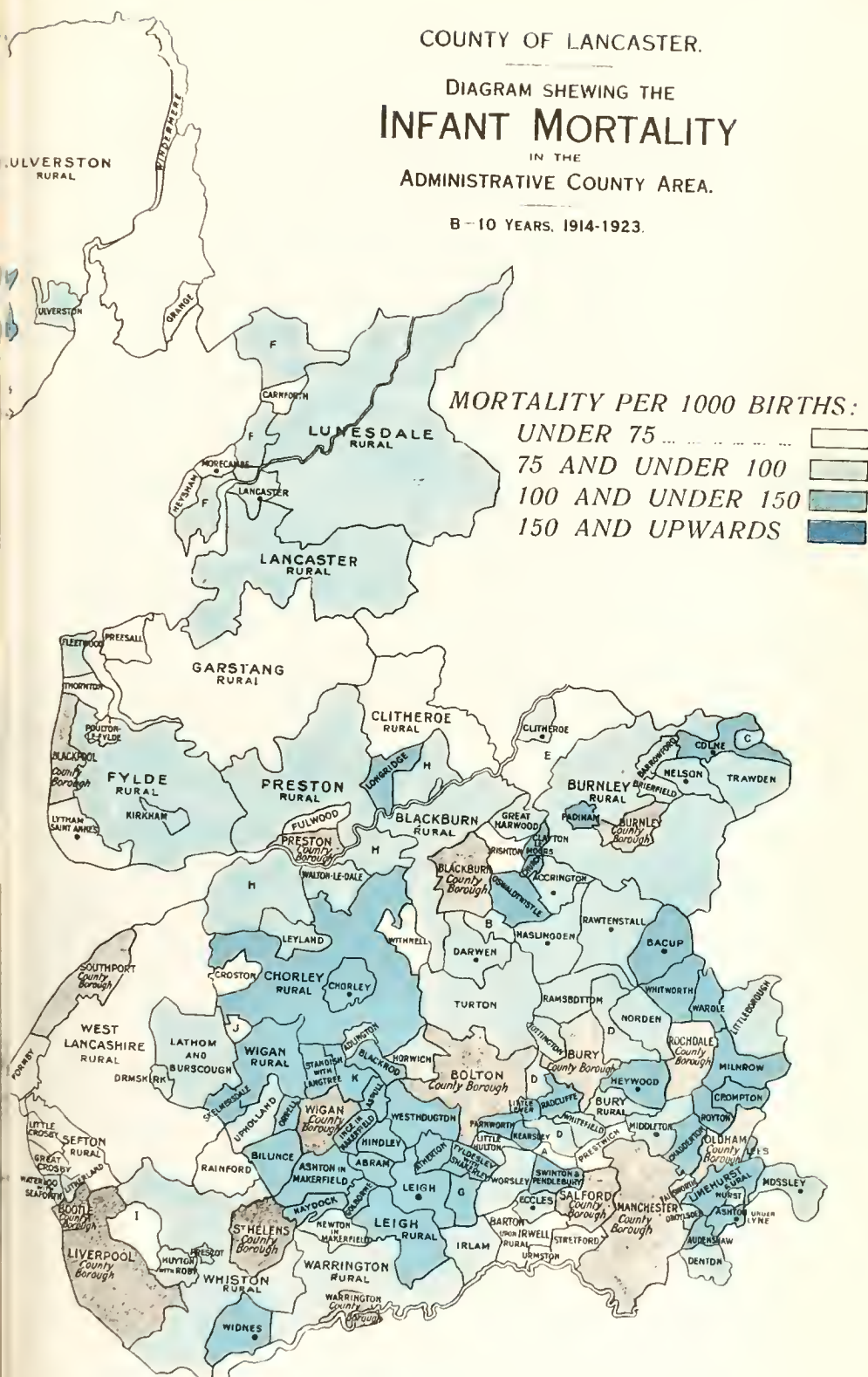
MORTALITY PER 1000 BIRTHS:

UNDER 75 . . . . .

75 AND UNDER 100 . . . . .

100 AND UNDER 150 . . . . .

150 AND UPWARDS . . . . .





births, Abram had a rate of 153, Lees 146, Hindley 144, Billinge 139, Wigan (R.) 138, Skelmersdale 133, Croston 125, Barrowford 118, Hurst, Little Hulton and Rainford each 115, Carnforth 114, Orrell 112, and Colne (B.) 111.

Extending over a period of ten years, the highest infant death-rates were: Longridge 135 per 1,000 births, Ince-in-Makerfield 130, Ashton-under-Lyne (B.) and Kirkham each 129, Leigh (B.) 127, and Farnworth and Hindley each 125.

The lowest infant mortality in 1923 was in Formby, Little Crosby and Grange-over-Sands nil, Huyton-with-Roby 26, Ormskirk 30, Prestwich, Lancaster (R.) and Whiston (R.) each 36, Urmston 37, Turton 38, and Prescott 39.

Maps "A" and "B," here inserted, compare, and show the improvement in, the infant mortality averages of the County districts for the ten years' periods 1891-1900 and 1914-1923.

The improvement which has taken place in the period for which County statistics are available is indicated below:—

No. of County districts with infant mortality—	Average 10 years, 1891-1900.		Average 10 years, 1914-1923.	
Under 75 per 1,000 births	...	Nil	...	25
75 and under 100 per 1,000 births		7	...	51
100 and under 150 per 1,000 births		50	...	45
150 and upwards per 1,000 births		64	...	Nil

**Maternal Mortality.**—Deaths in the Administrative County in the year 1923 classified by the Registrar-General as due to or associated with childbirth numbered 136, viz., puerperal sepsis 42, other accidents and diseases of parturition 94. The maternal mortality rate was 4.43 per 1,000 live births. In the year 1922 the figures were: deaths 153, mortality rate 4.78.

The table below contrasts the death-rates assigned to childbirth and puerperal sepsis in the Administrative County with those for the whole country :—

Year	ADMINISTRATIVE COUNTY.						ENGLAND & WALES.		
	No. of Births.	No. of Deaths.		Mortality per 1000 births.			Mortality per 1000 births.		
		Child-birth (Mothers)	Puer-peral Sepsis	Child-birth (Mothers)	Puer-peral Sepsis	Total	Child-birth (Mothers)	Puer-peral Sepsis	Total
1913 ....	38,850	131	62	3'37	1'60	4'97	2'70	1'26	3'96
1914 ....	38,552	137	73	3'55	1'89	5'44	2'62	1'55	4'17
1915 ....	34,713	127	43	3'66	1'24	4'90	2'71	1'47	4'18
1916 ....	32,695	145	44	4'43	1'35	5'78	2'74	1'38	4'12
1917 ....	28,420	101	32	3'55	1'13	4'68	2'58	1'31	3'89
1918 ....	27,736	112	44	4'04	1'59	5'63	2'51	1'28	3'79
1919 ....	28,799	92	57	3'19	1'98	5'17	2'70	1'67	4'37
1920 ....	39,767	117	81	2'94	2'04	4'98	2'52	1'81	4'33
1921 ....	36,558	128	58	3'50	1'59	5'09	2'53	1'38	3'91
1922 ....	32,011	97	56	3'03	1'75	4'78	2'43	1'35	3'81
Average 1913-1922	33,810	118	55	3'51	1'62	5'13	2'60	1'45	4'05
1923 ....	30,672	94	42	3'05	1'37	4'43	2'52	1'30	3'82

Figures extracted from the Annual Reports of the Registrar-General.

All the above figures are exclusive of the deaths of women not classed to pregnancy and childbearing but returned as associated therewith, but include deaths from puerperal nephritis and albuminuria.

The Ministry of Health, in June, 1924, issued Circular 517, calling the attention of Local Authorities to a Report by Dame Janet Campbell, Senior Medical Officer of the Ministry for Maternity and Child Welfare, on "Maternal Mortality Associated with Childbearing." This Report contains various suggestions for the prevention and remedy of the present high rate of maternal mortality, special reference being made to ante-natal supervision, provision of maternity beds, improvement of domestic midwifery and maternity nursing, and general educational measures.



**Notification of Births Acts, 1907 and 1915.**—The County Council is the "Local Authority" for the administration of the Notification of Births Act, 1907, for the sanitary areas in the County in which *that* Act had *not* been adopted at the time the Notification of Births (Extension) Act, 1915, became operative.

This area then comprised 79 districts, and since that date, six other County districts—Lees, Whitworth, Littleborough, Milnrow, Wardle, and Haydock—in which the 1907 Act had been adopted by the Local Authority, have, by mutual arrangement, been included in the County Council's Child Welfare "Area." The Barton-upon-Irwell rural district was included in the seventy-nine districts above referred to, but as the Rural Council had established a child welfare centre and appointed a health visitor, they remained outside the County "scheme" until the year 1921, when they were included by agreement. Two of the seventy-nine districts—Lytham and St. Annes-on-the-Sea—were amalgamated as the Borough of Lytham Saint Anne's in November, 1922, and ceased to form part of the County Child Welfare area on the 21st June, 1923.

The County Council's Child Welfare area, therefore, now consists of 83 districts, but as ten of the 79 districts mentioned in the preceding paragraph had appointed local health visitors prior to the date on which the County Council commenced this work, they are *excluded* from the County Council's Child Welfare scheme.

From the above-mentioned area—83 districts—the copy notifications of births received in the year 1923 by the County Medical Officer of Health, under the provisions of the Act of 1915, numbered 12,915. The actual number of births registered in these districts was 13,901.

**Maternity and Child Welfare.—Health Visitors.**—Maternity and Child Welfare work in the Administrative County was carried out as shown below on the 31st December, 1923:—

	Estimated Population for calculation of Birth-rate.	No. of Births registered in 1923.
By Local Sanitary Authorities—in		
48 districts (18 boroughs and		
30 urban districts) ... ..	1,107,005	19,204
By the County Council—in 73 dis-		
tricts (1 borough, 53 urban, and		
19 rural districts) ... ..	666,695	11,468
	<hr/>	<hr/>
	1,773,700	30,672

The following tabular statement shows the action taken up to 31st December, 1923, by the *Local Sanitary Authorities* of districts outside the County Council's Child Welfare scheme, in the establishment of Maternity or Infant Welfare Centres and the appointment of Health Visitors:—



LIST OF CHILD WELFARE CENTRES WHICH HAVE BEEN ESTABLISHED BY  
LOCAL SANITARY AUTHORITIES.

District.	Address of Child Welfare Centre.	Day and Time Open.	Health Visitor Appointed.
Abram ... ..	New building, near Council Offices ...	Alternate Wednesdays, 4 o'clock	Whole time
Accrington (B.) ...	Ambulance Drill Hall, Bull Bridge ...	Every morning and Thurs- day afternoon	Whole time
Ashton-in-Makerfield ...	Congregational Class Rooms, Gerard Street	Thursday, 2—4 ... ..	Whole time
Ashton-under-Lyne (B.)	Two Centres, east and west ends of district	Monday, 9—12 ; Tuesday, 2—5 ; Wednesday, 2—4 ; Thursday, 2-30—4-30	Whole time (3)
Atherton ... ..	Foundry Hall ... ..	Wednesday, 2-30 ... ..	Whole time
Bacup (B.) ... ..	Rochdale Road ... ..	Wednesday, 2-30—4 ...	Health Visitor also acts as School Nurse
Brierfield ... ..	Ambulance Hall, Crabtree Street ...	Tuesday, 2—4-30 ; Thurs- day, 2—5-30 ; Friday, 2—7-30	Whole time
Clacklerton ... ..	Washbrook Primitive Methodist School	Monday and Tuesday, 2—5	Whole time (2)

District.	Address of Child Welfare Centre.	Day and Time Open.	Health Visitor Appointed.
Chorley (B.) ...	Eaves Lane Congregational School ... St. George's Street School ...	Wednesday, 2—4-30 Thursday, 2—4-30	Whole time (2)
Clitheroe (B.) ...	Town Hall ...	Fortnightly—Tuesday, 3 ...	Health Visitor also acts as School Nurse
Cole (B.) ...	Bank House, Albert Road ...	Wednesday and Thursday, 10—11 and 2-30—4	Whole time
Crompton ...	Town Hall, Shaw ...	Wednesday, 2—5 ...	Whole time
Darwen (B.) ...	43, Bolton Road ...	Daily, 9—10; 4-30—5-30	Whole time (2)
Denton ...	Market Place ...	Monday, 2—5 ...	Whole time
Eccles (B.) ...	Green Lane, Patricroft ...	Monday, Tuesday, Wednesday, and Thursday, 2—5	Whole time (2)
Failsworth ...	Carnegie Library ...	Wednesday, 2—4-45 ...	Whole time
Farnworth ...	Wesley School, Market Street ...	Monday, Wednesday, and Friday, 2-30—4	Whole time (2)
Golborne ...	Methodist School, High Street ...	Alternate Thursdays, 2—5...	Whole time
Great Harwood ...	Town Hall ...	Alternate Tuesdays, 2-30—4-30	Part time

District.	Address of Child Welfare Centre.	Day and Time Open.	Health Visitor Appointed.
Haslingden (B.)	Wesleyan School, Manchester Road...	Alternate Thursdays, 3—5 ...	Health Visitor also acts as School Nurse
Heywood (B.)	Hornby Street Sunday School	Thursday, 1-30 ...	Whole time (2)
Hindley	White House, Liverpool Road	Monday and Thursday, 2—5-30	Whole time
Horwich	Public Hall	Every morning, 9—10; Wednesday and Thursday, 2-30—4-30	Whole time (2)
Hurst	Ormond Street Sunday School	Wednesday, 2—4 ...	Whole time
Ince-in-Makerfield	Manchester Road Warrington Road	Thursday, 2—4 ... Tuesday, 2—4 ...	Whole time (1); part time (1)
Irlam	Irlam and Cadishead	Alternate Wednesdays, 2—4	Whole time
Lancaster (B.)	Thurnham House, Thurnham Street	Tuesday and Thursday, 2—5	Four Health Visitors, who also act as School Nurses
Leigh (B.)	Stone House, St. Helens Road	Monday, 2—5 ...	Whole time (2)
Lytham Saint Anne's (B.)	Old Council Offices, Lytham ...	Thursday, 2—4-30 ...	Health Visitor also acts as School Nurse

District.	Address of Child Welfare Centre.	Day and Time Open.	Health Visitor Appointed.
Middleton (B.) ...	Health Department ...	Wednesday and Thursday, 2-5	Three Health Visitors, who also act as School Nurses
Mossley (B.) ...	Wesleyan Schools, Stamford Road	Wednesday, 3 ...	Whole time
Nelson (B.) ...	9, Carr Road ...	Wednesday, 2-30-5-30	Whole time (2)
Newton-in-Makerfield ...	Town Hall, Earlestown ... Town Hall, Newton-le-Willows	Thursday, 2-30-4-30 Monday, 3-4	Whole time
Orrell ...	Council Offices ...	Thursday, 3 ...	District Nurse acts as Health Visitor
Oswaldtwistle ...	Barnfield House ... Conservative Club, Belthorn, and Day School, Knuzden	Tuesday, 2-30 ... Once per quarter	Whole time
Padilham ...	West Bank House ...	Mornings, 9-10 : Wednesday, day, 2-30	Whole time
Prestwich ...	Wesleyan School ... " John Walkden " Institute	Tuesday, 2-5 ... Wednesday, 2-5	Whole time
Radcliffe ...	Nil ...	... ..	Whole time
Ramsbottom ...	Stubbins Lane ...	Tuesday, 2-4 ...	Whole time

District.	Address of Child Welfare Centre.	Day and Time Open.	Health Visitor Appointed.
Rawtenstall (B.)	Council School, Cloughfold Council School, Goodshaw Council School, Whitewell Bottom	... ... ...	Two Health Visitors, who also act as School Nurses
Royton	Free Library Hall	1st & 3rd Tuesday, 2-30—4 2nd & 4th Tuesday, 2-30—4 2nd & 4th Tuesday, 2-30—4	Whole time
Stretford	40, Talbot Road, Old Trafford	Wednesday, 2—5 Monday and Thursday, 2—4-30	Whole time
Swinton and Pendlebury	Council Offices, Swinton	Wednesday and Thursday, 2—4-30	Whole time (2)
Tyldesley-with-Shakerley	Technical School	Thursday, 3 ...	Whole time
Upholland	Nil	... ..	District Nurse acts as Health Visitor
Waterloo-with-Seaforth	Town Hall, Waterloo Northway House, Seaforth	Wednesday, 2-30—4-30 Monday, 2-30—4-30	Whole time
Westhoughton	Sunnybank	Thursday, 2-30—4-30	Whole time (2)
Widnes (B.)	Town Hall Cooper Hall Mill Brow Halebank	Consultations. Wed., 1-30—3 Tuesday, 1-30—3 Thursday, 1-30—5 daily, Wednesday, 3—5 ) 9—5	Whole time (4)

**SUPPLY OF FOOD AND MILK.**—In all the districts mentioned in the preceding tabular statement, arrangements have been made by the Local Authority under which a supply of food and milk for expectant and nursing mothers and of milk for infants is available in necessitous cases.

**COUNTY COUNCIL CHILD WELFARE SCHEME.**—The Medical and Nursing Staff of the School Medical Department and the Maternity and Child Welfare Staff of the County Public Health Department were amalgamated on the 1st April, 1919.

**Work of County Health Visitors.**—The following is a statement of the work carried out by the County Nurses during the twelve months ended 31st December, 1923 :—

*Home Visits—*

No. of first visits	...	...	..	11,174
No. of re-visits	...	...	...	45,225

*Ante-Natal Visits—*

No. of visits to expectant mothers	...	...	2,512
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*Other Visits—*

Special visits to older children, Medical Officers of Health, &c.	...	...	...	830
Visits to cases of ophthalmia neonatorum and other matters	...	...	...	296

*Reports to County Medical Officer of Health—*

Re insanitary conditions	...	...	...	67
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**CHILD WELFARE CENTRES.**—The following is a list of the County Council Child Welfare Centres :—

LIST OF CHILD WELFARE CENTRES WHICH HAVE BEEN ESTABLISHED BY THE COUNTY COUNCIL.

29

District.	Address of Child Welfare Centre.	Day and Time Open.	Medical Officer.	Nurse.
Addington ...	Wesleyan Sunday School, Market St.	Wednesday, 2—4	Dr. Johnstone	Miss Kennedy
Aspull (New Springs)	Ind. Methodist Sunday School, New Springs	Wednesday, 2—4	Dr. Hall	Miss Evans
Audenshaw ...	Hookey Hill Ind. Church, Bridge Street	Monday, 2-30—4	Dr. Cooper	Miss Dickinson
Barrowford ...	Congregational Sunday School, Hill Top	Thursday, 2—4	Dr. Corbett	Miss Wright
Bamber Bridge (Walton-le-Dale)	Conservative Club, Cranborne Road	Thursday, 2—4	Dr. Wray	Miss Canton
Broughton(a) (Preston, R.)	Broughton Club, near Preston	Alternate Wednesdays, 2—4	Dr. Wray	Mrs. Hoey
Briercliffe (Burnley, R.)	Tennyson Street Mission Hall	Alternate Wednesdays, 2-30—4	Dr. Corbett	Miss Wright
Burtonwood(b) (Warrington, R.)	Church Hall, Burtonwood	Tuesday, 10—12	Dr. Wright	Mrs. Birchall
Church ...	Baptist Sunday School, Ernest Street	Thursday, 2—4	Dr. Hobroyd	Mrs. Beckett



District.	Address of Child Welfare Centre.	Day and Time Open.	Medical Officer.	Nurse.
Clifton (Barton-upon-Irwell, R.)	Mutual Benefit Library, Rake Lane	Wednesday, 2-30—4-30	Dr. Davidson	Miss Lydall
Coppull(c) (Chorley, R.)	Wesleyan Sunday School, Chapel St.	Thursday, 2—4	Dr. Wray	Mrs. McTaggart
Dalton-in-Furness	Carnegie Library	Thursday, 2—4	Dr. Tomb	Miss Procter
Daybuline (Barton-upon-Irwell, R.)	Council Offices, Crofts Bank Road	Monday, 2-30—4	Dr. Davidson	Mrs. Chambers
Droylsden	Wesleyan Schools, Manchester Road	Tuesday, 2-30—4	Dr. Cooper	Mrs. Hutchinson
Peniscowles (Blackburn, R.)	Mission Hall, Preston Old Road	Tuesday, 2—4	Dr. Holroyd	Mrs. Palin
Fleetwood	(1) Wesleyan Meth. Sunday School, North Church Street	Tuesday, 2—4	Dr. Batty	Mrs. Dewhurst
"	(2) Elm Street Mission Hall	Wednesday, 2—4	Dr. Batty	Miss Knowles
Lixton (Barton-upon-Irwell, R.)	The Institute, Flixton Road	Tuesday, 2-30—4	Dr. Davidson	Mrs. Chambers
Haydock	Wesley Sunday School, Chipsley Lane	Wednesday, 3—5	Dr. Wright	Miss Steele
Kearsley	New Jerusalem School, Greenwood St.	Thursday, 2—4	Dr. Jagger	Miss Lydall

District.	Address of Child Welfare Centre.	Day and Time Open.	Medical Officer.	Nurse.
Leyland	... (1) Bradshaw Street Mission Room	Alternate Wednesdays, 2—4	Dr. Wray ...	Miss Rigby
"	... (2) Congregational Schools, Quin St.	Thursday, 2-30—4	Dr. Wray ...	Miss Rigby
Little Lever	... Church House Institute	Tuesday, 2-30—4	Dr. Jagger ...	Miss Wellard
Littleborough...	... 3, Todmorden Road	Wednesday, 2—4	Dr. Scholefield	Miss Beach
Longridge	... Drill Hall	Alternate Tuesdays, 2—4	Dr. Wray ...	Mrs. Heey
Litherland	... 32, Linacre Road	Tuesday, 2—4 ...	Dr. Barker ...	Miss Robinson Miss Shaw
Lytham (d)	... Albert Street Mission Hall	Thursday, 2—4	Dr. Batty ...	Miss Smith
Morecambe (B.)	... West End Wesleyan Sunday School...	Monday, 2—4 ...	Dr. Tomb ...	Miss Menzies
Ormskirk	... Church House, Church Street	Tuesday, 2—4 ...	Dr. Scholefield	Miss Dickinson
Prescot	... Parish Rooms, Warrington Road	2nd and 4th Mondays and Tuesday, 2—4	Dr. Brook ...	Miss Walters Miss Hughes
Skelmersdale	... Congregational Schools, Witham St.	Wednesday, 11—1	Dr. Brook ...	Miss Fry
Thornton(e)	... Prim. Meth. Sunday School, Fleet- wood Road	Thursday, 2—4	Dr. Batty ...	Mrs. Dewhurst

District.	Address of Child Welfare Centre.	Day and Time Open.	Medical Officer.	Nurse.
Tottington ...	Council Offices ...	Wednesday, 2-30—4 ...	Dr. Hutchinson ...	Mrs. Hilton ...
Ulverston ...	Raiton Row Mission Hall ...	Tuesday, 2—4 ...	Dr. Tomb ...	Miss Holmes ...
Urmston ...	Co-operative Hall, Higher Road ...	Tuesday, 2—4 ...	Dr. Scholefield ...	Miss Lawley ...
Walkden (Worsley) ...	Town Hall, Walkden ...	Thursday, 2-30—4 ...	Dr. Scholefield ...	Miss Murphy ...
Waterloo ...	United Methodist Sunday School ...	Alternate Thursdays, 2—4	Dr. Cooper ...	Mrs. Stringer ...
Whitefield ...	"Uplands" ...	Tuesday, 2-30—4 ...	Dr. Hutchinson ...	Mrs. Tregarthen ...
Whitworth ...	Registry Office, Station Road, Facit ...	Thursday, 2-45—4 ...	Dr. Forbes ...	Miss Rochell ...
Worsley(f) ...	Court House ...	Wednesday, 3—4 ...	Dr. Scowbie ...	Miss Murphy ...

(a) Centre handed over to Local Committee, May, 1923.

(b) Centre opened 25th September, 1923.

(c) Centre opened 7th June, 1923.

(d) Centre handed over to Lytham Saint Anne's Borough Council 21st June, 1923.

(e) Centre opened 6th September, 1923.

(f) Centre closed after the meeting on 21st March, 1923.

# BRANCH CENTRES FOR SUPPLY OF DRIED MILKS.

District.	Address of Centre.	Day and Time Open.	Nurse.
Bromley Cross (Turton)	Council Offices ...	Tuesday, 2—4	Miss A. Lynch
Clayton-le-Moors	Council Offices ...	Monday, 2—4	Mrs. S. Gray
Great Crosby	57, York Avenue	Wednesday, 2—4	Miss M. C. Williams
Lathom and Burscough	Council Offices ...	Friday, 10—11	Miss H. Dickinson
Rishton	Council Offices ...	Monday, 12—2	Mrs. M. R. Beckett

ATTENDANCES AT COUNTY CHILD WELFARE CENTRES.—Table " C " here inserted is a summary of attendances at the County Child Welfare Centres during the year 1923.

SUPPLY OF MILK, &c.—Table " D " is a statement showing the total sales of dried milk, &c., at the County Council Child Welfare Centres during the year ended 31st December, 1923.

On page 35 is a statement with regard to milk, &c., supplied by the County Council to necessitous cases during the year under report :—

# ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE C.—SUMMARY OF ATTENDANCES, &c., AT CHILD WELFARE CENTRES DURING THE TWELVE MONTHS ENDED 31st DECEMBER, 1923, TOGETHER WITH THE NUMBER OF BIRTHS NOTIFIED DURING THAT PERIOD.

Name of Child Welfare Centre.	No. of times open.	No. of Births Notified during the 12 months.	No. of Individual Children Attending.			No. of Attendances by Children.			No. of Attendances by Expectant Mothers.		No. of Attendances by other Women.	
			Under 1 year.	From 1-2 years.	Over 2 years.	Under 1 year.	From 1-2 years.	Over 2 years.	No. of Individual Expectant Mothers Attending.	No. of Actual Attendances.	No. of Individual Women Attending.	No. of Actual Attendances.
Allington ... ..	47	75	95	62	62	1270	812	874	22	152	14	93
Aspull (New Springs) ...	48	196	121	98	40	1088	337	139	10	12	14	20
Aldenshaw ... ..	48	140	133	85	47	1281	593	285	1	2	...	...
Bamber Bridge ... ..	49	97	145	164	228	934	600	750	28	172	83	249
Barrowford ... ..	48	58	85	38	36	641	210	103	4	17	19	104
Briercliffe ... ..	24	36	31	14	11	114	73	28	1	2	30	30
Broughton(a) ... ..	9	2	1	1	10	2	2	16	1	4	12	17
Burtonwood(b) ... ..	13	26	32	18	13	91	50	29	2	4	4	46
Church ... ..	44	101	157	78	78	1349	501	464	13	33	25	338
Cotton ... ..	45	48	43	25	22	426	220	174	3	10	4	10
Coppull(c) ... ..	29	66	110	67	35	640	449	244	9	35	18	259
Dalton-in-Furness ...	48	137	208	189	410	1779	1439	1763	42	244	160	577
Deayhulme ... ..	44	17	6	7	10	94	52	76	1	20	2	25
Droylsden ... ..	49	284	287	122	26	3387	852	146	14	51	11	178
Farnsworth ... ..	47	13	33	29	30	206	142	105	6	9	12	89
Fleetwood (N. Ch. St.)	47	432	122	72	77	767	315	385	6	38	32	69
" (Elm St.) ... ..	47		198	108	68	1340	573	269	16	44	47	82
Flixton ... ..	43	54	58	12	28	540	99	215	7	23	34	88
Fraydock ... ..	48	299	156	60	66	989	341	86	30	48	8	8
Farsley ... ..	48	190	184	99	39	1522	464	89	3	34	...	...
Land (B. St.) ... ..	24	151	16	4	15	143	36	214	3	25	13	184
" (Quin St.) ... ..	43		67	25	47	397	263	733	10	59	4	78





TABLE C—Continued.

Name of Child Welfare Centre.	No. of times open.	No. of Births Notified during the 12 months.	No. of Individual Children Attending.			No. of Attendances by Children.			No. of Attendances by Expectant Mothers.		No. of Attendances by other Women.	
			Under 1 year.	From 1-2 years.	Over 2 years.	Under 1 year.	From 1-2 years.	Over 2 years.	No. of Individual Expectant Mothers Attending.	No. of Actual Attendances.	No. of Individual Women Attending.	No. of Actual Attendances.
land ... ..	48	270	216	72	64	1681	270	164	35	130	128	638
ri-borough ... ..	48	165	139	97	75	1150	415	370	19	48	25	98
Little Lever ... ..	48	79	112	59	32	1171	324	221	2	7	35	77
Longridge ... ..	24	77	54	30	18	315	217	105	7	35	8	84
Lytham(d) ... ..	22	95	51	38	42	319	187	231	1	16	10	30
Morecambe (B.) ... ..	47	171	164	70	68	1048	288	287	17	76	1	2
Ormskirk ... ..	47	147	114	70	58	1286	650	406	22	128	10	68
Prescot ... ..	71	192	332	125	135	1368	410	209	59	176	29	68
Skelmersdale ... ..	48	142	102	57	49	804	400	377	8	38	51	247
Thornton(e) ... ..	16	33	48	23	69	280	85	258	2	7	13	44
Tottington ... ..	47	122	62	34	26	355	111	79	3	10	13	59
Uiverston ... ..	48	172	165	137	296	1494	1089	1240	39	216	82	135
Urmston ... ..	49	119	68	46	35	783	214	229	7	12	25	65
Waterloo... ..	24	67	93	25	5	578	164	12	...	...	2	3
Whitefield ... ..	45	110	212	90	49	1213	409	239	...	...	...	...
Whitworth (Facit) ... ..	48	120	90	56	34	673	240	94	13	68	...	...
Worsley(f) ... ..	11	192	16	9	...	50	24	...	...	...	...	...
Walkden ... ..	48		158	68	10	1224	292	30	4	5	...	...

(a) Centre handed over to Local Committee, May, 1923.

(b) Centre opened 25th September, 1923.

(c) Centre opened 7th June, 1923.

(d) Centre handed over to Lytham Saint Anne's Borough Council, 21st June, 1923.

(e) Centre opened 6th September, 1923.

(f) Centre closed after the meeting on 21st March, 1923.



# ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE D.—SUMMARY OF THE SALES OF DRIED MILK, &c., AT THE COUNTY CHILD WELFARE CENTRES DURING THE YEAR ENDED 31st DECEMBER, 1923.

Foodstuffs, &c.	Stock during year.		Disposed of								Stock on hand 31st December, 1923.	
			At Cost Price or Over.			At Less than Cost Price.			Free.			
	lbs.	Cost.	lbs.	Amount Received.	Profit.	lbs.	Amount Received.	Loss.	lbs.	Loss.	lbs.	Cost.
		£ s. d.		£ s. d.	£ s. d.		£ s. d.	£ s. d.		£ s. d.		£ s. d.
... ..	40790	3294 2 2	25909	2292 11 2	306 1 1	814	*74 1 4	34 6 7	11165	958 2 4	2902	241 1 10
... and Gate ...	15784	1191 3 10	7669	642 5 10	126 0 0	450	19 14 10	17 15 2	6901	574 1 0	764	63 7 0
Vinol ... ..	7183	718 6 0	5288	528 16 0	...	15½	0 15 6	0 15 6	864	86 8 0	1015½	101 11 0
... ed Liver Oil & Malt	3591	171 6 0	1411	81 0 2	35 3 10	65	1 17 7	1 18 5	1659	98 17 8	456	22 16 0
... ck's Malted Milk	4695	596 5 5	3065	396 5 11	10 11 4	36	2 18 0	1 15 0	867	111 19 9	727	93 18 1
... ed Liver Oil Emul....	300	20 19 0	203	14 12 0	0 8 0	...	...	...	32	2 8 0	65	4 7 0
Lactagol ... ..	356	21 7 6	260	17 6 1	2 5 9	2	0 1 4	0 1 4	18	1 3 7	76	5 0 11
Robinson's Groats ...	19	1 0 7	5	0 5 5	...	...	...	...	...	...	14	0 15 2
Stamine Malt ... ..	120	5 12 6	92	5 7 4	1 7 6	...	...	...	12	0 14 0	16	0 18 8
Virolax ... ..	17	1 18 3	17	1 18 3	...	...	...	...	...	...	...	...
Humanised Milk ...	48	4 16 0	19	2 1 2	0 8 0	...	...	...	1	0 2 2	28	3 0 8
Seewa Whoy ... ..	48	2 8 0	3	0 3 3	0 4 0	...	...	...	1	0 1 1	44	2 7 8
Feeding Utensils ...	916	17 14 2	682	11 18 9	0 3 0	48	0 8 2	1 1 8	10	0 3 3	176	4 5 4
	73867	6046 19 5	44623	3994 11 4	482 12 6	1430½	99 16 9	57 13 8	21530	1834 0 10	6283½	543 9 4

\* Includes £37 5s. rebate granted by Messrs. J. Nathan & Co., Ltd., in respect of Glaxo given free during the period 1st October to 31st December, 1923.



STATEMENT WITH REGARD TO THE SUPPLY OF MILK, ETC., BY THE COUNTY COUNCIL  
TO NECESSITOUS CASES DURING THE YEAR ENDED 31ST DECEMBER, 1923.

Food Supplied.	Old Cases.			New Cases.			TOTAL OF OLD AND NEW CASES.		
	No. of Cases.	Quantity Supplied.	No. of Cases.	Quantity Supplied.	No. of Cases.	Quantity Supplied.	No. of Cases.	Quantity Supplied.	Free of Cost.
Fresh Milk ...	1280	79,040 pints	1459	426,298 pints	111	38,718 pints	2,628	466,620 pints	
Glaxo ...	174	1,893 lbs.	278	10,537 lbs.	27	816 lbs.	425	11,614 lbs.	
Cow and Gate ...	74	782 lbs.	122	6,590 lbs.	13	446 lbs.	183	6,926 lbs.	
Viol ...	34	91½ lbs.	64	784½ lbs.	3	14 lbs.	95	862 lbs.	
Cod Liver Oil and Malt	37	240 lbs.	87	1,497 lbs.	8	64 lbs.	116	1,673 lbs.	
Horlick's Malted Milk ...	18	110 bottles	55	796 bottles	6	32 bottles	67	874 bottles	
Lactagol ...	1	1 tin	4	28 tins	1	2 tins	4	27 tins	
Cod Liver Oil Emulsion	1	10 bottles	2	22 bottles	...	...	3	32 bottles	
Vitamine Malt ...	...	...	1	12 lbs.	...	...	1	12 lbs.	

NOTE.—By "Old" Case is meant one which has been granted prior to January, 1923.  
By "New" " " " " during the year, 1923.

**Nursing Arrangements, &c.**—The Form issued by the Ministry of Health to be supplied by local Medical Officers of Health with their Annual Reports contains questions with regard to local nursing arrangements, hospital accommodation for maternity cases, children, &c. From the replies given it appears that in 74 County districts some arrangements have been made for professional nursing in the home for "general" cases, and in 24 districts for the nursing of cases of "infectious diseases." In only a few districts (apart from the Poor Law Institutions) has provision been made for unmarried mothers, or for the nursing of maternity cases.

Day nurseries have been provided at Darwen (closed on 31st March, 1923) and Morecambe by the Borough Councils, and at Leyland by the County Council.

In almost every County district ambulance facilities are available, both for infectious cases and for non-infectious and accident cases.



**The Principal Infectious Diseases.**—The table below gives the death-rates from the principal infectious diseases for the Administrative County during the year 1923, and also the rates for the preceding ten years :—

Annual Death-rate per 1,000 of the population.								
YEAR.	Smallpox.	Measles.	Scarlet fever.	Diphtheria	Whooping cough.	Enteric fever.	* Diarrhœa, &c.	
1913 ... ..	nil.	0·31	0·05	0·11	0·13	0·10	0·85	
1914 ... ..	nil.	0·28	0·09	0·13	0·18	0·07	0·48	
1915 ... ..	nil.	0·49	0·08	0·14	0·20	0·07	0·52	
1916 ... ..	0·003	0·17	0·06	0·15	0·14	0·05	*0·27	
1917 ... ..	nil.	0·27	0·03	0·13	0·11	0·04	*0·18	
1918 ... ..	nil.	0·20	0·03	0·15	0·31	0·05	*0·19	
1919 ... ..	nil.	0·07	0·04	0·13	0·05	0·02	*0·16	
1920 ... ..	0·0005	0·19	0·03	0·11	0·09	0·03	*0·25	
1921 ... ..	nil.	0·04	0·03	0·09	0·15	0·02	*0·27	
1922 ... ..	0·0005	0·20	0·05	0·08	0·12	0·02	*0·13	
County average 10 years. ... ..	0·0004	0·22	0·04	0·12	0·14	0·04	0·33	
1923								
COUNTY ... ..	nil.	0·07	0·03	0·05	0·11	0·02	*0·12	
Urban... ..	nil.	0·07	0·03	0·05	0·12	0·02	*0·13	
Rural... ..	nil.	0·04	0·02	0·02	0·09	0·01	*0·06	

\* Since 1916 the "diarrhœa" death-rate includes deaths from diarrhœa, &c., under two years of age only. Including the total diarrhœa deaths at all ages the County diarrhœa death-rate in 1923 was 0·18; in 1922 this rate was 0·22.

The following summary compares the number of deaths in 1923 with the previous year, and also gives the number of notified cases for the two years :—

			Smallpox.	Measles.	Scarlet fever.	Diphtheria.	Whooping cough.	Enteric fever.	*Diarrhoea (under 2 years of age).
Deaths :—									
1922...	...	...	1	354	89	147	217	38	*246
<b>1923</b>	...	...	...	<b>131</b>	<b>58</b>	<b>96</b>	<b>208</b>	<b>38</b>	<b>*218</b>
Increase or decrease in 1923 ...			-1	-223	-31	-51	-9	nil.	-28
Notified cases :—									
1922...	...	...	11	†	5631	1569	†	126	†
<b>1923</b>	...	...	<b>77</b>	†	<b>4346</b>	<b>1209</b>	†	<b>142</b>	†
Increase or decrease in 1923 ...			+66	...	-1285	-360	...	+16	...

\* The total diarrhoea deaths in the Administrative County at all ages in 1923 numbered 326, or 77 less than in 1922. † Not notifiable.

Taking these diseases as a whole, there has been a general decline, both in incidence and mortality, and the death-rates of the year under report compare very favourably with those of 1922 and with the mean of the ten years 1913-1922.

The following statement compares the notifications deaths and death-rates of the year 1923 with 30 years ago :—

	Small pox	Measles	Scarlet fever	Diphtheria	Whooping cough	Enteric fever	Diarrhoea (All ages)
Case notifications—							
1893	1038	...	8431	1299	...	2620	...
<b>1923</b>	<b>77</b>	...	<b>4346</b>	<b>1209</b>	...	<b>142</b>	...
No. of deaths—							
1893	84	1069	595	529	472	495	220
<b>1923</b>	...	<b>131</b>	<b>58</b>	<b>96</b>	<b>208</b>	<b>38</b>	<b>32</b>
Death-rate per 1,000—							
1893	0·04	0·58	0·32	0·13	0·25	0·27	1·2
<b>1923</b>	<b>nil</b>	<b>0·07</b>	<b>0·03</b>	<b>0·05</b>	<b>0·11</b>	<b>0·02</b>	<b>0·1</b>

**VACCINATION.**—The Annual Report of the Chief Medical Officer of the Ministry of Health gives the following details in regard to vaccination for the whole country for the year 1922. Excluding from the birth returns the deaths that took place before vaccination, it appears that of the surviving children there were registered 42·6 per cent. as successfully vaccinated, 0·2 per cent. as either insusceptible of vaccination or as having had smallpox, 1·3 per cent. as under medical certificate of postponement, and 47·0 per cent. in respect of whom certificates of conscientious objection to vaccination had been obtained ; leaving 8·9 per cent. as at that time still unaccounted for as regards vaccination.

**Smallpox.**—The yearly incidence of this disease since 1890 in the County area is shown below :—

Year	Cases Notified.	Deaths.	Year.	Cases Notified.	Deaths.
1890.....	1 .....	0	1907.....	13 .....	1
1891.....	2 .....	0	1908.....	2 .....	1
1892.....	612 .....	70	1909.....	7 .....	0
1893.....	1038 .....	84	1910.....	23 .....	0
1894.....	259 .....	25	1911.....	21 .....	0
1895.....	100 .....	19	1912.....	1 .....	0
1896.....	83 .....	10	1913.....	10 .....	0
1897.....	3 .....	0	1914.....	14 .....	0
1898.....	6 .....	1	1915.....	3 .....	0
1899.....	16 .....	1	1916.....	46 .....	6
1900.....	59 .....	3	1917.....	0 .....	0
1901.....	6 .....	0	1918.....	1 .....	0
1902.....	436 .....	22	1919.....	4 .....	0
1903.....	1156 .....	68	1920.....	83 .....	1
1904.....	422 .....	22	1921 .....	0 .....	0
1905.....	255 .....	6	1922.....	11 .....	1
1906.....	233 .....	0	<b>1923.....</b>	<b>77 .....</b>	<b>0</b>

The 77 cases *notified* in the year under report were distributed as follows :—

Nelson (B.)	...	69 cases.
Clitheroe (B.)	...	3 „
Barrowford	...	2 „
Brierfield	...	1 case.
Colne (B.)	...	1 „
Radeliffe	...	1 „

Special investigations at Nelson (B.), in which the County medical staff assisted, showed that in addition to the 69 cases “ notified,” there were 10 “ missed ” cases.

The statement below shows the condition as to vaccination of the total number of persons attacked :—

Unvaccinated	...	...	76
Vaccinated in infancy	...	...	11*

\*Of the persons said to have been vaccinated in infancy 10 were adults, whose ages ranged from 45 to 77 years, and the remaining case was a child aged 6 years, who had very minute scars of vaccination.

**Measles.**—The deaths registered as due to measles numbered 131, against 354 in the preceding year.

The ages at death in 1923 were :—

Under 1 year	...	...	...	34, or 25·9 per cent.
Between 1 year and 5 years	...	...	...	86, or 65·6 per cent.
Five years and upwards	...	...	...	11, or 8·3 per cent.

The death-rate from measles per 1,000 of the population was :—

County, year 1923	...	...	...	0·07
Urban districts	...	...	...	0·07
Rural districts	...	...	...	0·04
County, 10 years' average 1913-22	...	...	...	0·22
England and Wales, 1923	...	...	...	0·14

The following districts had the highest death-rates from this disease : Trawden 1.08 (3 deaths), Atherton 0.68 (14 deaths), Longridge 0.46 (2 deaths), Dalton-in-Furness 0.40 (5 deaths), and Little Hulton 0.36 (3 deaths).

Schools were closed in 23 districts on account of measles.

**Scarlet Fever.**—The increase in the number of scarlet fever notifications which has been taking place since 1918 was arrested during the year under report.

Below are the notifications and deaths during the last five years :—

		Cases notified.		Deaths.
1919	.....	4,080	.....	72
1920	.....	4,831	.....	53
1921	.....	5,557	.....	61
1922	.....	5,631	.....	89
1923	.....	4,346	.....	58

The mortality rates were :—

County, year 1923	...	...	...	0.03
Urban districts	...	...	...	0.03
Rural districts	...	...	...	0.02
County, 10 years' average 1913-22	...	...	...	0.04
England and Wales, 1923	...	...	...	0.03

The case mortality in 1923 was 1.33 per cent., as compared with 1.58 in 1922 and 1.09 in 1921 and 1920.

Of the total deaths from scarlet fever, 44.8 per cent. were of children under the age of five years.

The incidence of the disease was most marked in Widnes (B.) 291 cases (5 deaths), Stretford 230 (2 deaths), Leigh (B.) 173 (2 deaths), Darwen (B.) 147 (1 death), Ashton-under-Lyne (B.) 133 (2 deaths), Swinton and Pendlebury 127 (4 deaths), Heywood (B.) 116, Litherland 112 (4 deaths), and Colne (B.) 109 (1 death).

Of the total scarlet fever notifications (4,346), 55·7 per cent. received hospital isolation : in 1922 this percentage was 54·3, and 47·6 in 1921. In 15 districts in 1923 all the cases reported were removed to hospital, and over 80 per cent. of removals took place in 28 other districts.

Schools were closed in four districts.

**Whooping Cough.**—The deaths registered from whooping cough numbered 208, nine fewer than in the year 1922.

The ages at death were :—

Under 1 year	...	...	93, or 44·7 per cent.
Between 1 year and 5 years	...	107, or 51·4 per cent.	
Five years and upwards	...	8, or 3·8 per cent.	

The mortality rates were :—

County, year 1923	...	...	0·11
Urban districts	...	...	0·12
Rural districts	...	...	0·09
County, 10 years' average 1913-22	...	0·14	
England and Wales, 1923	...	...	0·10

Ashton-under-Lyne (B.) contributed 17 deaths, Widnes (B.) 15 deaths, and Swinton and Pendlebury 12 deaths.

School closure took place on account of this disease in 12 districts.

**Diphtheria.**—A further decline is recorded in the number of cases and in the fatalities, viz. :—

	Cases notified.	Deaths.	Case mortality.
1920	2,120	202	9·5
1921	1,924	166	8·6
1922	1,569	147	9·3
1923	1,209	96	7·9

The mortality rates were :—

County, year 1923	...	...	0·05
Urban districts	...	...	0·05
Rural districts	...	...	0·02
County, 10 years' average 1913-22	...	0·12	
England and Wales, 1923	...	...	0·07



Of the total deaths due to diphtheria, 58, or 60·3 per cent., were of children under five years of age.

The incidence was greatest in Ashton-in-Makerfield 95 cases (2 deaths), Widnes (B.) 82 cases (8 deaths), Atherton 40 cases (5 deaths), Lancaster (B.) 40 cases (1 death), Great Harwood 39 cases (3 deaths), and Leigh (B.) 39 cases (1 death).

Of the total notified cases (1,209), 736, or 60·8 per cent., were removed to hospital, and the case mortality was 5·29 per cent. Of the 473 cases treated at home, 57 died, giving a case mortality of 12·05 per cent.

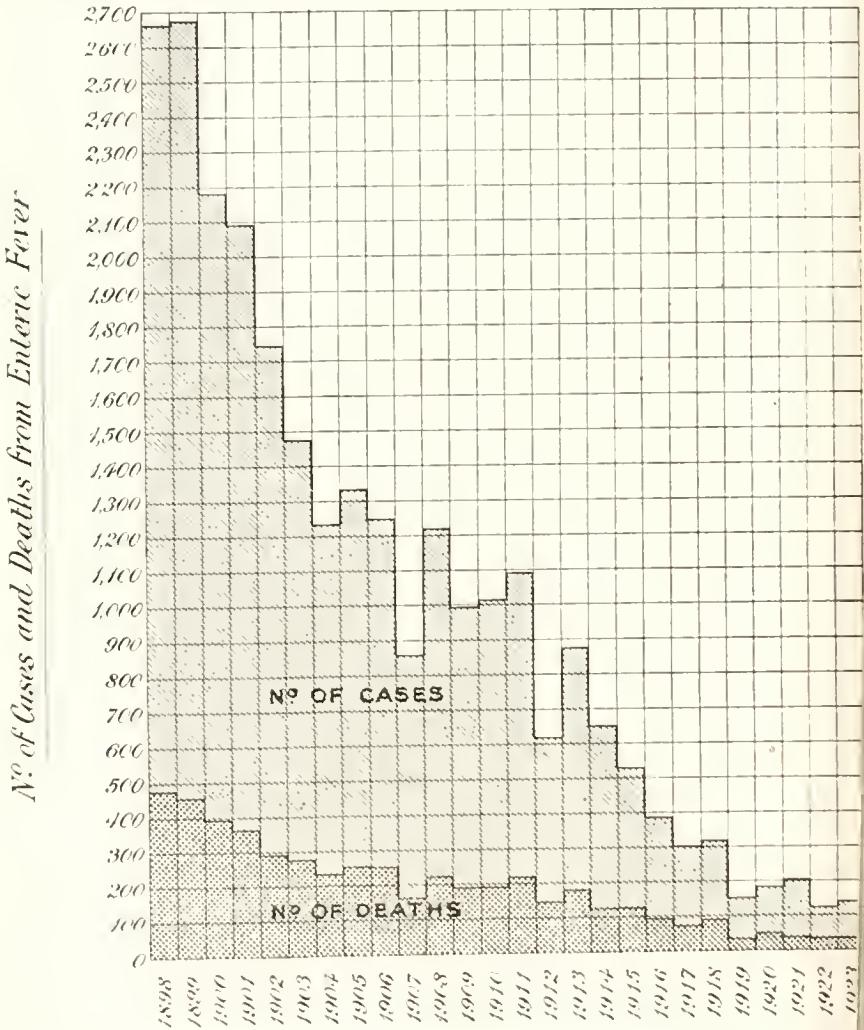
From 84 districts 1,644 swabs were sent for examination. Schools were closed in two districts.

**Enteric Fever.**—The incidence of enteric fever in the County since 1898 is shown in the following table:—

Cases.		Deaths.		Cases.		Deaths.	
1898	... 2661	...	478	1911	... 1091	...	220
1899	... 2674	...	457	1912	... 620	...	147
1900	... 2183	...	399	1913	... 875	...	180
1901	... 2094	...	364	1914	... 650	...	123
1902	... 1747	...	297	1915	... 530	...	127
1903	... 1479	...	277	1916	... 387	...	94
1904	... 1235	...	233	1917	... 302	...	74
1905	... 1335	...	255	1918	... 319	...	91
1906	... 1248	...	252	1919	... 152	...	35
1907	... 859	...	164	1920	... 183	...	52
1908	... 1219	...	224	1921	... 204	...	42
1909	... 994	...	192	1922	... 126	...	38
1910	... 1016	...	193	1923	... 142	...	38

The attack-rate per 1,000 of the population, which in the year 1898 equalled 1·41, was only 0·08 in the year under report. In 61 County districts there was an entire absence in 1923 of enteric fever.

The diagram below illustrates the fall in the case incidence and in the mortality from this disease.



The enteric fever mortality rates were as follow :—

County, year 1923	...	...	0.02 per 1,000
Urban districts	...	...	0.02 „
Rural districts	...	...	0.01 „
County, 10 years' average,			
1913-22	...	...	0.04 „
England and Wales, 1923	...	...	0.01 „
County case mortality, 1923	...	...	26.7 per cent

Fifty per cent. of the persons attacked with enteric fever in 1923 were removed to isolation hospitals. Blood specimens submitted for examination from 52 districts numbered 178.

**Diarrhœa, &c.**—The following deaths and death-rates were ascribed to this cause :—

		Death-rates per 1,000.			
		Deaths.	County.	Urban districts.	Rural districts.
At all ages ...	... 326	0.18	...	0.19	... 0.11
Under 2 years of age	218	0.12	...	0.13	... 0.06

In the year 1922 the deaths at all ages numbered 403, of which 246 were of children under the age of two years, and in 1921 these totals were 690 and 489 respectively.

The 218 deaths from diarrhœa of children under two years of age corresponded to 7.10 per 1,000 of the total births registered in the County, as compared with a rate of 7.7 for the whole of England and Wales.

The mortality rates were highest in the following districts : Carnforth 0.61 per 1,000 of the population, Little Lever 0.59, Barrowford 0.52, and Brierfield 0.47.

**Poliomyelitis, Polio-encephalitis, Encephalitis Lethargica, Meningococcal Meningitis (Cerebro-Spinal Fever).—** The reported incidence of these diseases is shown below :—

	Polio- myelitis.	Polio- encephal- itis.	Encephal- itis lethargica.	Meningo- coccal meningitis (cerebro- spinal fever).
*Cases notified—				
1922 ... ..	12	...	17	18
1923 ... ..	23	2	61	11
*Attack rate in 1923 per 1,000 of popula- tion ... ..	0·012	0·001	0·034	0·006
*Deaths—				
1922 ... ..	4	3	16	19
1923 ... ..	3	2	37	12
Distribution (1923)—	C. D.	C. D.	C. D.	C. D.
Urban districts	21 3	2 2	57 34	10 11
Rural districts ...	2 —	— —	4 3	1 1
Seasonal incidence (1923)—				
Cases—1st quarter	6	2	22	5
2nd „ ...	3	—	21	2
3rd „ ...	8	—	11	2
4th „ ...	6	—	7	2

\* Notification of these diseases is not complete; for example, an examination of the County death returns in 1923 showed that the following cases had *not* been notified:—encephalitis lethargica 5, and meningococcal meningitis 3.

Encephalitis lethargica has now been compulsorily notifiable for five years, and the number of cases notified in the County, with the seasonal incidence, is set out below :—

Year.	1919.	1920.	1921.	1922.	1923.
1st quarter	... 12 ...	... 5 ...	... 46 ...	... 3 ...	... 22
2nd „	... 8 ...	... 13 ...	... 16 ...	... 6 ...	... 21
3rd „	... 1 ...	... 5 ...	... 9 ...	... 4 ...	... 11
4th „	... 5 ...	... 9 ...	... 8 ...	... 4 ...	... 7
Total cases	... 26 ...	... 32 ...	... 79 ...	... 17 ...	... 61
Total deaths	... 13 ...	... 13 ...	... 46 ...	... 16 ...	... 37

**Ophthalmia Neonatorum.**—Under “The Public Health (Ophthalmia Neonatorum) Regulations, 1914,” the following cases were notified :—

1920	... ..	457
1921	... ..	263
1922	... ..	237
1923	... ..	210

The statement below is collated from information supplied by local Medical Officers of Health in their annual reports :—

CASES.			Vision unimpaired.	Vision impaired.	Total blindness.	Deaths.
Number notified.	Treated at home.	Treated at hospital.				
210	170	35	180	7	...	2

(These details are incomplete).

Further reference is made to this disease in connection with the work carried out under the Midwives Acts, page 81.

**Influenza.**—The deaths registered as due to influenza in 1923 and the preceding five years are shown below :—

1918 ...	... 4492	1921 ...	... 412
1919 ...	... 2463	1922 ...	... 1061
1920 ...	... 558	1923 ...	... 670

The majority of the deaths took place in the first half of the year, the greatest mortality occurring in April, May, and June, when nearly 60 per cent. of the total fatalities were recorded.

The County influenza death-rate in 1923 was 0·37 per 1,000 of the population, as compared with a rate of 0·60 in 1922.

Schools were closed in eight districts.

**Pneumonia.**—The cases notified under the Public Health (Pneumonia, &c.) Regulations, and the deaths registered as due to pneumonia are shown below :—

Cases notified :				Mortality :		
	Acute primary pneumonia and acute influenzal pneumonia.			Total deaths pneumonia, all forms.		Death rate per 1,000.
1919	...	2,915	...	1,940	...	1·16
1920	...	2,420	...	1,815	...	1·04
1921	...	2,061	...	1,639	...	0·93
1922	...	3,123	...	2,014	...	1·14
1923	...	3,239	...	1,848	...	1·04

The deaths in 1923 ascribed to pneumonia represented 8·46 per cent. of the total deaths from all causes, and corresponded to a rate of 1·04 per 1,000 of the population. 1·05 in the urban districts and 0·93 in the rural districts.

**Bronchitis.**—The fatalities assigned to bronchitis numbered 1,968, against 2,241 in the year 1922, a decrease of 273. These deaths represented 9·01 per cent. of the total deaths from all causes, and equalled a death-rate of 1·11 per 1,000 of the population (urban districts 1·15, rural districts 0·80).

**Malaria, Dysentery and Trench Fever.**—The following cases were notified :—

	1921.	1922.	1923.
Malaria ...	55	22	14
Dysentery ...	64	195	77
Trench Fever	1	—	—

Seventy-six of the dysentery cases in 1923 occurred in two public institutions.

**Heart Disease.**—Deaths assigned to “heart disease.” represent the largest proportion of fatalities grouped under one heading, viz., 2,707, or 12·4 per cent. of the total deaths from all causes, and give a death-rate of 1·52 per 1,000 of the population. Last year the deaths numbered 2,837.

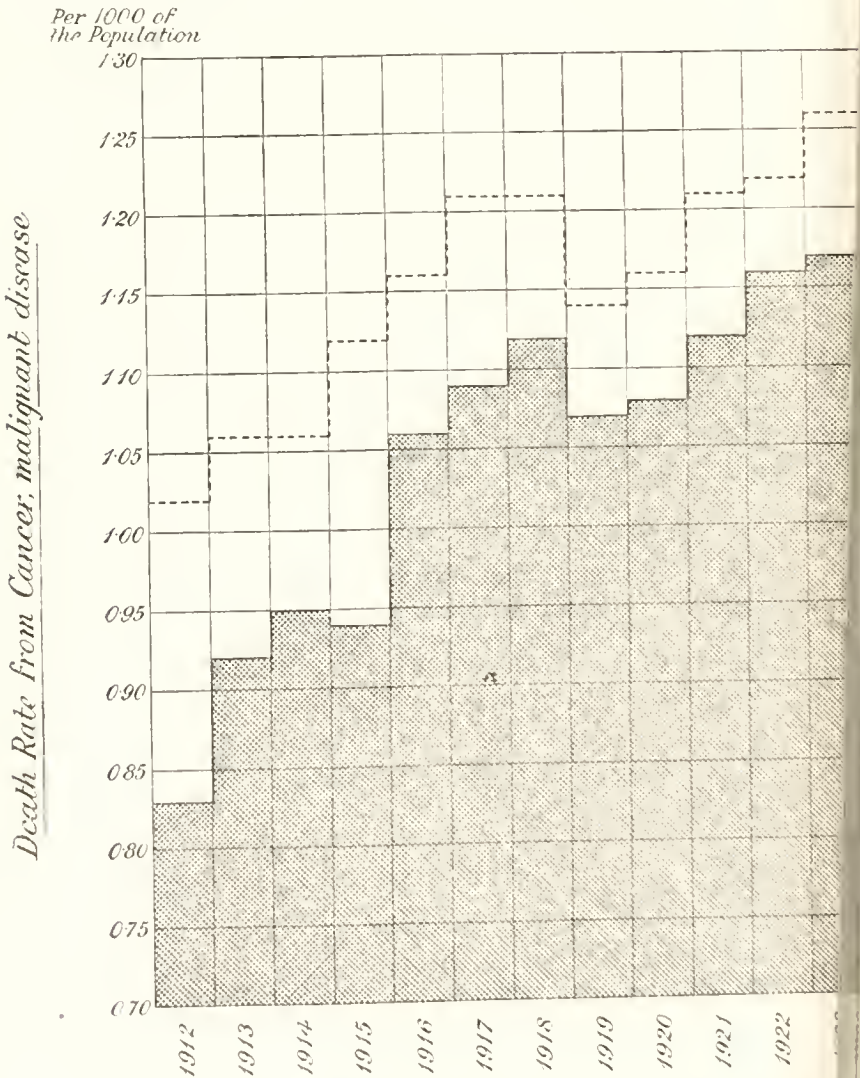
**Cancer, Malignant Disease.**—The number of deaths registered as due to cancer again shows an increase on the preceding year, and the County totals in 1923, both for males and females, are the highest recorded.

Year.	Administrative County.		England and Wales (crude rates).
	No. of Deaths.	Death-rate per 1,000.	Death-rate per 1,000.
1913	1,618	0·92	1·06
1914	1,668	0·95	1·06
1915	1,577	0·94	1·12
1916	1,728	1·06	1·16
1917	1,713	1·09	1·21
1918	1,727	1·12	1·21
1919	1,793	1·07	1·14
1920	1,880	1·08	1·16
1921	1,981	1·12	1·21
1922	2,063	1·16	1·22
Average 1913-1922	1,774	1·05	1·15
1923	2,076	1·17	1·26
	Males 902 Females 1,174		



The 2,076 deaths correspond to 9·5 per cent. of the total deaths from all causes.

The gradual rise in the County cancer mortality rate is shown in diagrammatic form :—



The dotted line compares the rate for the whole of England and Wales with that of the Administrative County.

The following table groups the cancer deaths in the County in certain age periods, both for males and females :—

Year.	Total Cancer Deaths.	Sex.	Years.			
			Under 25.	25—45.	45—65	65 and upwards
1916 ... ..	1,728	M.	7	51	393	266
		F.	10	120	523	358
1917 ... ..	1,713	M.	9	64	379	277
		F.	8	116	541	319
1918 ... ..	1,727	M.	8	39	413	302
		F.	10	127	504	324
1919 ... ..	1,793	M.	6	62	416	290
		F.	6	123	539	351
1920 ... ..	1,880	M.	8	69	463	287
		F.	5	113	543	392
1921 ... ..	1,981	M.	16	65	453	317
		F.	4	132	566	428
1922 ... ..	2,063	M.	15	48	519	331
		F.	10	120	559	461
1923 ... ..	2,076	M.	15	47	458	382
		F.	10	103	572	489

MEMORANDUM ON CANCER.—In August, 1923, the Ministry of Health issued a Memorandum on Cancer for the guidance of local authorities, in view of the great and increasing amount of suffering and deaths due to that disease. The Memorandum offers for the consideration of local health authorities some suggestions which may be useful to them in their efforts to inform public opinion on this important subject. This

Memorandum, and others issued in March, May and July, 1924, have been prepared by the Departmental Committee on Cancer.

**Tuberculosis of the Respiratory System.**—In the year 1921 the Registrar-General substituted the above heading for the term "Pulmonary Tuberculosis." Deaths from "acute military tuberculosis," which were formerly included under "pulmonary tuberculosis," have since 1921 been classified with "other forms of tuberculosis," and the mortality tables and rates for England and Wales in the reports of the Ministry of Health have been altered accordingly, but it is not possible to similarly alter the statistics of the Administrative County for years previous to 1921.

The deaths in the Administrative County in the year 1923 allocated by the Registrar-General to "Tuberculosis of the Respiratory System" numbered 1,250—males 704 females 546—as compared with 1,362 deaths in the year 1922 a decrease of 112 deaths.

The proportion of these deaths to the total deaths from all causes was 5.72 per cent., against a corresponding percentage in the previous year of 5.82, and 6.02 per cent. in 1921.

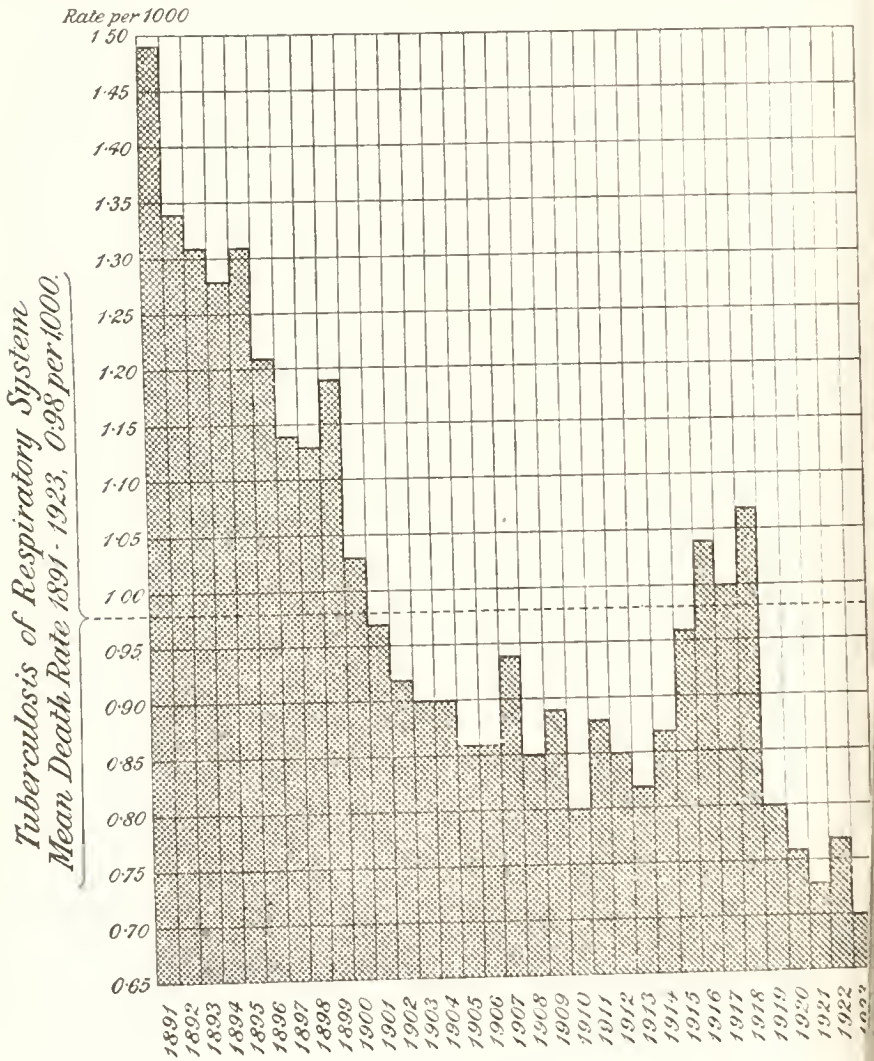
The death-rate for the Administrative County in 1923 from tuberculosis of the respiratory system was the lowest on record, viz., 0.70 per 1,000 of the estimated population, 0.71 in the urban districts, and 0.59 in the rural districts. In the preceding twelve months the County rate was 0.77 per 1,000 and the average of the ten years 1913—1922 was 0.88.

The following table compares the County rates from "pulmonary tuberculosis" for 1923 with the ten preceding years, and also with the mortality for the whole of England and Wales :—

Year.	Administrative County of Lancaster.					England and Wales.	
	Total No. of deaths.	Death-rate per 1,000 of population.			Mortality per cent. of total deaths (County).	Death-rate.	Mortality per cent. of total deaths.
		County.	Urban.	Rural.			
1913	1,441	0·82	0·84	0·71	5·7	1·00	7·3
1914	1,523	0·87	0·89	0·69	6·2	1·04	7·5
1915	1,614	0·96	1·01	0·70	6·3	1·16	7·4
1916	1,685	1·04	1·07	0·81	7·2	1·17	8·2
1917	1,584	1·00	1·03	0·84	7·2	1·25	8·7
1918	1,652	1·07	1·10	0·88	6·2	1·34	7·6
1919	1,339	0·80	0·81	0·75	5·7	0·99	7·3
1920	1,323	0·76	0·77	0·67	6·0	0·88	7·2
*1921	1,301	0·73	0·76	0·59	6·0	0·88	7·3
*1922	1,362	0·77	0·79	0·60	5·8	0·88	6·9
10 years' average	1,482	0·88	0·90	0·72	6·2	1·05	7·5
*1923	1,250	0·70	0·72	0·59	5·7	0·83	7·2

\* Exclusive of deaths from acute military tuberculosis. As the County tuberculosis death-rate cannot be corrected in this respect for years prior to 1921, the rates here given for England and Wales for those years remain uncorrected.

The fall in the County rate from "pulmonary tuberculosis" since the year 1891 is shown in the following diagram:—



Grouped into ten years' periods, the County death-rate from the disease is as follows:—

1893-1902	...	1.14	per 1,000 of population.
1903-1912	...	0.87	" "
1913-1922	...	0.88	" "
Year 1923	...	0.70	" "



The highest local death-rates in 1923 from tuberculosis of the respiratory system were :—Dalton-in-Furness, 1·52 per 1,000 of the population ; Failsworth, 1·33 ; Heywood (B.), 1·25 ; Withnell, 1·15 ; Colne (B.), 1·10 ; Thornton, 1·09 ; Kearsley and Sefton (R.), each 1·08 ; and Lancaster (B.) and Morecambe (B.), each 1·07.

Extending over a period of ten years (1913-1922), the highest district death-rates were :—Wardle, 1·35 ; Litherland, 1·31 ; Dalton-in-Furness, 1·28 ; Whitworth and Widnes (B.), each 1·27 ; Kirkham and Lancaster (B.), each 1·24 ; and Ashton-under-Lyne (B.), 1·22.

The death-rate from tuberculosis of the respiratory system for each urban and rural district in the year 1923 is given in Table " B," inserted opposite page 16, and the 1923 district rates are compared with the year 1922 and with the ten years' averages on pages 101 to 141.

The following table shows the male and female deaths from this disease at various age periods during the last eight years :—

	At all Ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upw'ds
Males—									
1916 ...	900 ...	2 ...	6 ...	11 ...	28 ...	133 ...	392 ...	300 ...	28
1917 ...	827 ...	5 ...	7 ...	6 ...	21 ...	125 ...	380 ...	252 ...	31
1918 ...	844 ...	2 ...	7 ...	8 ...	31 ...	136 ...	370 ...	253 ...	37
1919 ...	675 ...	4 ...	4 ...	8 ...	20 ...	98 ...	286 ...	225 ...	30
1920 ...	729 ...	6 ...	2 ...	5 ...	21 ...	116 ...	292 ...	257 ...	30
1921 ...	682 ...	2 ...	0 ...	3 ...	15 ...	104 ...	302 ...	236 ...	20
1922 ...	754 ...	4 ...	4 ...	9 ...	15 ...	129 ...	295 ...	267 ...	31
1923 ...	<b>704 ...</b>	<b>1 ...</b>	<b>4 ...</b>	<b>0 ...</b>	<b>13 ...</b>	<b>135 ...</b>	<b>293 ...</b>	<b>223 ...</b>	<b>35</b>
Females—									
1916 ...	785 ...	3 ...	9 ...	11 ...	68 ...	180 ...	370 ...	129 ...	15
1917 ...	757 ...	4 ...	4 ...	11 ...	63 ...	196 ...	333 ...	133 ...	13
1918 ...	808 ...	2 ...	1 ...	4 ...	55 ...	215 ...	373 ...	139 ...	19
1919 ...	664 ...	2 ...	4 ...	8 ...	45 ...	167 ...	293 ...	118 ...	27
1920 ...	594 ...	2 ...	7 ...	5 ...	28 ...	166 ...	257 ...	114 ...	15
1921 ...	619 ...	2 ...	1 ...	2 ...	34 ...	156 ...	298 ...	110 ...	16
1922 ...	608 ...	2 ...	3 ...	4 ...	24 ...	189 ...	248 ...	112 ...	26
1923 ...	<b>546 ...</b>	<b>1 ...</b>	<b>2 ...</b>	<b>8 ...</b>	<b>30 ...</b>	<b>165 ...</b>	<b>234 ...</b>	<b>91 ...</b>	<b>15</b>

The table below gives the total deaths from tuberculosis of the respiratory system in the County during 1912-1923, distinguishing the male and female deaths and showing the increase in the war period (1914-1918) over the number of deaths occurring in the year 1913 :—

Year.	Deaths from tuberculosis of the respiratory system.			Increase or decrease on 1913 totals.		
	Males.	Females.	Total.	Males.	Females.	Both Sexes.
1912	897	702	1599	...	...	...
1913	813	694	1507	...	...	...
1914	862	730	1592	+49	+36	+85
1915	896	795	1691	+83	+101	+184
1916	900	785	1685	+87	+91	+178
1917	827	757	1584	+14	+63	+77
1918	844	808	1652	+31	+114	+145
1919	675	664	1339	—138	—30	—168
1920	729	594	1323	—84	—100	—184
1921	682	619	1301	—131	—75	—206
1922	754	608	1362	—59	—86	—145
1923	704	546	1250	—109	—148	—257

Totals for years 1912-1915, taken from Registrar-General's Reports, differ slightly from totals in County Health Reports.

OTHER TUBERCULOUS DISEASES.—An increase is recorded in 1923 in the number of deaths assigned to "other tuberculous diseases," viz., 412 against 389 in the previous year and 376 in the year 1921. With the 1,250 deaths ascribed to tuberculosis of the respiratory system, the *total* deaths from tuberculosis in 1923 numbered 1662, equal to a combined death-rate of 0.93 per 1,000 of the population. In 1922 this rate was 0.99, 0.95 in 1921, 0.99 in 1920, and 1.02 in 1919.

The table following gives the number of deaths in 1923 compared with the preceding five years from tuberculous diseases in certain age groups :—



TABLE F.

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ANALYSIS OF TUBERCULOSIS NOTIFICATIONS.

(Extracted from Weekly Returns of District Medical Officers of Health.)

\* See footnote on Table E.





PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

(Extracted from Weekly Returns of District Medical Officers of Health.)

		NOTIFICATIONS ON FORMS A AND B—Excluding Duplicates.																								NOTIFICATIONS. FORM B ONLY. (By School Medical Inspectors.)										Number of Cases Notified on Form C. (Admissions.)			
		PULMONARY.												NON-PULMONARY.												Total Pul- monary and Non- Pul- monary.	PRIMARY NOTIFICATIONS (i.e., excluding duplicates.)				Total Notifica- tions (i.e., including cases previously notified by other Doctors.)								
																											Under 5 years.	5 to 10 years.	10 to 15 years.	TOTAL.									
		Years.	0 to 1.	1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 and up- wds	TOTAL.	TOTAL M. & F.	0 to 1.	1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.							65 and up- wds	TOTAL.	TOTAL M. and F.					
Thirteen weeks ended 31st March, 1923 ..	M. ..	5	16	6	20	31	70	61	37	23	2	271	} 507	7	35	42	26	21	6	6	5	6	1	2	157	} 300	807	P. ..	N.P. ..	2	3	..	..	2	3	} 12	15	8	187
F. ..	4	17	17	29	42	51	42	23	8	3	236	5		30	26	24	16	15	13	3	7	4	..	143	..		..	..	4	1	2	1	6						
Thirteen weeks ended 30th June, 1923 ..	M. 1	4	10	16	24	42	64	51	42	26	2	282	} 561	3	34	43	33	22	12	16	8	8	2	2	178	} 366	927	1	1	1	7	2	6	4	14	} 28	28	6	234
F. ..	5	15	20	31	42	79	45	28	11	3	279	5		30	35	31	18	22	15	16	11	3	2	188	..		..	1	3	3	3	4	6						
Thirteen weeks ended 29th September, 1923	M. 1	1	11	9	21	32	66	54	39	20	4	258	} 504	6	23	34	23	17	9	11	8	3	5	2	141	} 303	807	..	..	2	3	1	4	3	7	} 21	22	8	202
F. ..	4	9	14	37	38	68	35	22	12	6	246	2		24	34	30	23	14	19	6	3	5	2	162	..		2	1	4	1	3	2	9						
Thirteen weeks ended 29th December, 1923	M. ..	6	13	18	28	38	45	31	27	5	211	} 398	2	24	20	25	19	8	13	2	3	7	1	124	} 250	648	..	1	..	1	1	..	1	2	} 6	6	3	267	
F. 1	1	6	12	18	29	58	29	11	18	4	187		2	21	18	23	16	10	17	7	9	2	1	126		..	..	..	..	..	3	..	3						
Total .. ..	M. 2	10	43	44	83	133	238	211	149	96	13	1022	} *1970	18	116	139	107	79	35	46	23	15	15	7	600	} *1219	*3189	1	2	5	14	4	10	10	26	} 67	71	25	890
F. 1	14	47	63	115	151	256	152	84	49	16	948	14		105	113	108	73	61	64	32	30	14	5	619	..		2	2	11	5	11	7	24						

\* Includes 54 cases (33 pulmonary and 21 non-pulmonary) in which the notifications have been withdrawn (to 30th June, 1924) as it was found the diagnosis had been incorrect. See footnote page 57.

	All ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards
Year 1918 .. ..	2087	40	55	80	183	419	816	427	62
Year 1919 .. ..	1697	34	36	82	152	323	629	374	67
Year 1920 .. ..	1719	54	48	63	139	333	608	418	56
Year 1921 .. ..	1677	38	36	53	147	323	656	379	45
Year 1922 .. ..	1751	53	45	63	110	386	609	411	74
<b>Year 1923 ...</b>	<b>1662</b>	<b>38</b>	<b>54</b>	<b>55</b>	<b>142</b>	<b>362</b>	<b>597</b>	<b>352</b>	<b>62</b>
Tuberculosis of respiratory system .. ..	1250	2	6	8	43	300	527	314	50
Other Tuberculous Diseases ..	412	36	48	47	99	62	70	38	12

THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912-1921.—Tables "E" and "F," here inserted, analyse, both as regards the parts of the body affected and in age periods, the notifications of tubereulosis received under the above Regulations during the 52 weeks ended on the 29th December, 1923.

The notifications for 1923, compared with 1922, were as under :—

	Pulmonary tuberculosis.	Other forms of tuberculosis.	Totals (excluding duplicates).
1922 ...	1,877	968	2,845
1923 ...	*1,979	*1,219	*3,189

(See footnote below and on Table E).

\* Following on a suggestion made by the Chief Medical Officer of the Ministry of Health, any case notified as tuberculosis and found, as the result of observation and examination by the Tuberculosis Officer, to have been wrongly notified, the Register is now corrected and the notification cancelled, the consent of the notifying medical practitioner to the withdrawal of the notification having been previously obtained. Of the cases notified in 1923, sixty-four such withdrawals (33 pulmonary and 31 non-pulmonary) have so far (to 30th June, 1924) taken place. (See footnote on Table E.) The totals given above and in Tables E. and F. are the gross notifications.

The totals for 1923 exclude 292 duplicate notifications, 915 notifications on Form C (admissions to institutions), and 797 on Form D (discharges from institutions).

Since February 1st, 1913, tuberculosis, both "pulmonary" and "other forms", has been compulsorily notifiable; previous to that date it was incompletely notifiable.

The following table shows that the case notification rate for the Administrative County has declined, as regards "pulmonary" tuberculosis, from 1.54 per 1,000 of the population in the year 1913 to 1.11 in 1923, and as regards "other forms" of tuberculosis from 0.90 per 1,000 to 0.68. For purposes of comparison the corresponding rates for England and Wales are given in the table:—

	Administrative County of Lancaster.				England and Wales.	
	Pulmonary Tuberculosis.		Other forms of Tuberculosis.		Pulmonary Tuberculosis.	Other forms of Tuberculosis.
	Cases notified.	Rate per 1,000 of populatn.	Cases notified.	Rate per 1,000 of populatn.	Rate per 1,000 of populatn.	Rate per 1,000 of populatn.
1913 .....	2700	1.54	1592	0.90	2.65	1.14
(11 months)					(whole year)	
1914 .....	2820	1.61	1140	0.65	2.20	0.66
1915 .....	2872	1.72	1128	0.67	2.07	0.65
1916 .....	2689	1.52	1180	0.66	2.10	0.69
1917 .....	2375	1.35	1062	0.60	2.18	0.66
1918 .....	2534	1.47	885	0.51	2.17	0.58
1919 .....	2105	1.21	847	0.48	1.81	0.47
1920 .....	2084	1.23	968	0.55	1.65	0.42
1921 .....	2044	1.16	899	0.51	1.57	0.42
1922 .....	1877	1.06	968	0.54	1.40	0.41
1923 .....	1970	1.11	1219	0.68	1.39	0.45

The following table differentiates the male and female notified cases 1913-1923 at certain specified age groups:—



Years.	0 to 1.	1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 and up.	Total.	Total, M & F.
<i>Pulmonary tuberculosis—</i>													
1913..M. F. (11 m'nths)	1 6	24 28	97 100	70 101	129 158	131 188	311 296	292 201	228 103	114 65	29 25	1426 1274	2700
1914..M. F.	6 3	40 32	80 115	83 107	112 140	172 181	329 336	315 225	240 107	107 47	23 20	1507 1313	2820
1915..M. F.	5 5	47 27	97 96	79 111	127 152	138 191	305 383	303 239	235 100	117 60	31 21	1487 1385	2872
1916..M. F.	1 2	31 24	71 81	77 96	121 165	157 186	331 345	296 220	190 98	96 52	36 13	1407 1282	2689
1917..M. F.	4 2	20 22	77 90	62 100	113 129	104 155	262 296	268 185	190 107	90 50	30 19	1220 1155	2375
1918..M. F.	3 1	35 24	55 69	59 74	140 139	108 166	300 297	317 207	232 117	98 52	28 13	1375 1159	2534
1919..M. F.	2 5	22 14	53 54	55 80	94 126	107 161	238 261	212 184	165 99	91 41	17 24	1056 1019	2105
1920..M. F.	2 2	24 20	56 53	63 71	94 115	120 122	281 264	249 147	160 84	90 36	14 17	1153 931	2084
1921..M. F.	1 ..	17 12	43 53	47 77	94 132	133 160	222 255	225 156	162 82	84 50	19 20	1047 997	2044
1922..M. F.	3 4	16 15	38 45	48 58	84 136	122 136	228 203	191 147	149 61	99 42	27 25	1005 872	1877
1923 M. F.	2 1	10 14	43 47	44 63	83 115	133 151	238 256	211 152	149 84	96 49	13 16	1002 943	* 1970
<i>Non-pulmonary tuberculosis—</i>													
1913..M. F. (11 m'nths)	29 28	128 118	177 134	137 132	98 118	58 86	71 80	48 47	27 29	18 19	3 7	794 798	1592
1914..M. F.	43 37	111 88	131 98	95 89	77 77	36 44	47 58	23 27	20 12	14 6	3 4	600 540	1140
1915..M. F.	39 26	109 88	113 107	93 88	61 84	46 53	50 61	29 33	14 15	5 7	3 4	562 566	1128
1916..M. F.	20 8	127 68	135 122	99 114	65 85	42 46	47 65	34 41	12 19	13 11	5 2	599 581	1180
1917..M. F.	21 7	116 79	109 97	105 98	61 89	23 59	42 49	30 25	8 23	9 6	1 5	525 537	1062
1918..M. F.	14 10	75 75	103 84	65 92	60 80	19 46	29 46	16 29	14 9	7 6	2 4	404 481	885
1919..M. F.	13 10	50 59	97 98	80 76	53 61	26 43	31 41	22 29	19 11	12 7	4 5	407 440	847
1920..M. F.	31 12	62 66	107 86	108 78	68 62	26 46	35 52	23 34	16 23	11 16	5 1	492 476	968
1921..M. F.	12 15	60 62	110 89	84 81	53 65	32 41	41 53	23 15	17 21	6 9	4 6	442 457	899
1922..M. F.	18 13	101 77	113 81	81 96	56 61	39 45	39 52	22 25	13 14	7 7	3 5	492 476	968
1923 M. F.	18 14	116 105	139 113	107 108	79 73	35 61	46 64	23 32	15 30	15 14	7 5	600 619	* 1219

\* See footnote on Table E and on page 57.



For reference, and for the information of the County Tuberculosis Department, a card index of *every* case notified, and also a record of the deaths from tuberculosis, are kept up to date in the County Public Health Department, and copies of all notifications received by the County Medical Officer of Health are forwarded each week to the Consultant Tuberculosis Officers.

**The Public Health (Venereal Diseases) Regulations, 1916.**  
—The County Council scheme for the diagnosis and treatment of venereal diseases has been detailed in previous reports.

**TREATMENT CENTRES.**—Following is a list of the approved Institutions with which the County Council has arrangements for the treatment of patients, showing the days and hours of the clinics, (revised to July, 1924) :—

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
Ashton-under-Lyne District Infirmary, Darnton Road	Wednesday, 3—4 p.m. Thursday, 6—7-30 p.m.	Monday, 6—7-0 p.m. Wednesday, 3—4 p.m.
	<i>Irrigation :—</i> For Gonorrhoea cases, Monday to Friday, 6—7 p.m.	
Barrow-in-Furness, North Lonsdale Hospital, School Street	Wednesday, 10 a.m. Thursday, 7-30 p.m. Saturday, 10 a.m.	Wednesday, 7-30 p.m. Friday, 10 a.m.
	<i>Irrigation :—</i> Daily, 6—7 p.m.	
	<i>N.B.</i> —Apprehensive cases present themselves at the Clinics.	
Blackburn and East Lancashire Royal Infirmary	Tuesday, 5 p.m. Friday, 7-30 p.m.	Monday, 5-30 p.m. Thursday, 6 p.m.
	<i>N.B.</i> —New patients should present themselves 15 minutes before above hours	
Blackpool Victoria Hospital, Whitegate Drive	Monday, 5 p.m. Wednesday, Thursday, and Saturday, 11 a.m.—12-30 p.m.	Tuesday, 5 p.m. Friday, 11 a.m.—12-30 p.m.

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
Bolton Public Health Department Clinic, Howell Croft North	Monday, Tuesday, and Wednesday, 7 p.m.	Thursday, 7 p.m. Saturday, 11 a.m.
	<i>Irrigation :—</i>	
	Monday and Wednesday, 11 a.m. Friday, 11 a.m. and 7 p.m.	Tuesday, 10 a.m., and Thursday, 13 p.m.
Bootle Borough Hospital, Derby Road	Monday, 5-30 p.m. Thursday, 12 noon Friday, 5-30 p.m.	Monday, 12 noon Thursday, 6-30 p.m.
Burnley Victoria Hospital	Monday, 10—11 a.m. ; 5-30—6-30 p.m. Thursday, 5-30—6-30 p.m.	Friday, 11 a.m.—12 noon ; 5-30—6-30 p.m.
Bury Dispensary, The Wyldes	Friday, 6-30—8-30 p.m.	Tuesday, 6-30—8-30 p.m.
Liverpool Royal Infirmary, Pembroke Place	<i>New Patients :—</i>	
	Monday, 5-30 p.m. Tuesday, 1 p.m. Wednesday, 5-30 p.m. Friday, 7 p.m.	Tuesday, 6 p.m. Thursday, 12 noon
	<i>Continuation Treatment :—</i>	
	Daily (except Sunday), 9 a.m. to 6-30 p.m.	Daily (except Sunday), 10—11 a.m.
	Saturdays, 9 a.m. to 12 noon.	
Liverpool David Lewis Northern Hospital (entrance in Leeds Street)	<i>New Patients :—</i>	
	Monday and Friday, 5—6 p.m.	Wednesday, 5—6 p.m.
	<i>Continuation Treatment :—</i>	
	Tuesday, Wednesday, Thursday, and Saturday, 6—8 p.m.	
Liverpool Royal Southern Hospital, Caryl Street	<i>New Patients :—</i>	
	Tuesday, 5 p.m. Friday, 1-30 p.m. Saturday, 1 p.m.	Thursday, 6 p.m.
	<i>Continuation Treatment :—</i>	
	Daily, 12-15 p.m. (except Sunday) Saturday, 1 p.m.	Daily, 5 p.m. (except Sunday) Saturday, 1 p.m.

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
Liverpool Stanley Hospital, Stanley Road, Kirkdale	<p>New Patients :—</p> <p>Monday and Thursday, 5—6 p.m.</p> <p>Continuation Treatment :—</p> <p>Daily, 6—7 p.m. (except Tuesday, Saturday, and Sunday)</p>	
Manchester Royal Infirmary, Oxford Road	<p>Syphilis—</p> <p>Wednesday, 6 p.m.</p> <p>Diseases of the Genito-Urinary Organs—</p> <p>Thursday, 6 p.m.</p> <p>Syphilis and Diseases of the Genito-Urinary Organs—</p> <p>Monday, 6 p.m.</p>	<p>Tuesday, 5—6 p.m.</p> <p>Saturday, 12 noon</p> <p>Daily, 11 a.m. (except Sunday)</p> <p>Thursday, 11 a.m. (also for children)</p> <p>Wednesday, 11 a.m. (also for children)</p>
Manchester St. Luke's Hospital, Duke Street, Liverpool Road	<p>Monday, 5—7 p.m.</p> <p>Tuesday, 5—7 p.m.</p> <p>Thursday, 5—7 p.m.</p> <p>Friday, 5—7 p.m.</p>	<p>Wednesday, 5—7 p.m. (women only)</p>
Manchester and Salford Hospital for Skin Diseases, Quay Street, Deansgate (Syphilis and skin diseases only treated at this Hospital)	<p>Daily (Sunday excepted)</p> <p>9—10 a.m.</p>	<p>9—11 a.m.</p> <p>Children, 9—11 a.m.</p>
Manchester St. Mary's Hospitals (Whitworth Street West Branch), Oxford Street	<p>Monday</p> <p>Wednesday</p> <p>Thursday</p> <p>Friday</p> <p>9—10.30 a.m.</p> <p>Thursday, 5—7 p.m.</p>	
Manchester Ancoats Hospital, Mill St., Ancoats	<p>Wednesday, 5.30—7 p.m.</p> <p>Saturday, 5—7 p.m.</p>	<p>Wednesday, 11.30 a.m.—1 p.m.</p>

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
Oldham Royal Infirmary, Union Street West	<p>New Patients :—</p> <p>Syphilis— Tuesday, 7 p.m. Gonorrhœa— Wednesday, 7 p.m.</p> <p>} Monday, 7 p.m.</p> <p>Irrigation :— Every evening.</p>	
Preston Royal Infirmary, Deepdale Road	<p>Wednesday, 4-30— 7-30 p.m. Friday, 4-30—7 p.m.</p>	<p>Tuesday, 4-30—7 p.m.</p>
Rochdale Infirmary, Red- cross Street	<p>Intermediate treatment :—</p> <p>Monday, 6-30 p.m. Wednesday, 12 noon Friday, 6-30 p.m. Saturday, 5-30 p.m.</p> <p>Monday Thursday Friday Saturday } 3 p.m.</p>	
	<p>Clinic :—</p> <p>Tuesday, 3-45— —5-45 p.m. Thursday, 5—7 p.m.</p> <p>Tuesday, 9-30— —11-30 a.m. Wednesday, 5-30 —7-30 p.m.</p>	
Salford Royal Hospital, Chapel Street. Out-patient Clinic—1, Adelphi Place, back of Hospital	<p>Skin Department :—</p> <p>Monday, 12 noon Wednesday, 7 p.m.</p> <p>Monday, 12 noon Wednesday, 6 p.m.</p> <p>Genito-Urinary Department :—</p> <p>Tuesday, 12 noon Friday, 6 p.m.</p> <p>Tuesday, 12 noon Friday, 6 p.m.</p>	
Southport Infirmary, Curzon Road	<p>Monday and Thurs- day, 5—7-30 p.m.</p> <p>Daily Treatment :—</p> <p>Monday, Tuesday, Wednesday, Thursday and Friday, 8—9-30 a.m. and 6—7-30 p.m. Saturday, 6—7-30 p.m.</p>	<p>Tuesday, 1-30 to 4 p.m.</p> <p>Monday, Tuesday, Wednesday, Thursday, Friday and Saturday, 2 p.m. Wednesday, 10—12 a.m.</p>

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
St. Helens Dispensary— 18, Cloughton Street	Monday, 6—7 p.m.  Disinfection and Irrigation :— Monday to Friday, 9-30 a.m.—5 p.m. Saturday, 9-30 a.m.—12 noon	Wednesday, 7—8 p.m. (also for Children)
Warrington Infirmary and Dispensary, Kendrick St. Out-patient Clinic—Bea- mont Street entrance	Tuesday, 3-30 p.m. Friday, 6 p.m.	Tuesday, 5 p.m. Friday, 5 p.m.
Wigan Royal Albert Edward Infirmary, Wigan Lane	Tuesday and Friday, 4-30 p.m.	

Each Institution is available for the *free* treatment of all comers, without distinction as to means or as to place of residence.

*Work carried out at the Treatment Centres during the year 1923.*—The following table, which is compiled from the Annual Returns (Form V.R. 19) of the medical officers of Treatment Centres, shows a further decline in the number of County residents attending at the Clinics for the *first* time. The total number of persons so attending during the year 1923 was 1,570, as compared with 1,690 persons in 1922, 2,173 in 1921, and 2,816 in 1920. The "average attendance" in 1923 slightly increased.

	Syphilis.	Soft Chanere	Gonorrhoea	Conditions other than Venereal.	Residents at Out-patient Clinic.	days.	Compounds.
Year 1919	1510	94	729	408	22732	2838	8798
Year 1920	1433	85	802	496	31096	2490	10052
Year 1921	1104	33	622	414	32739	2367	10115
Year 1922	701	17	573	399	29420	1490	8501
<b>Year 1923:</b>							
Ashton-under-Lyne District Infirmary	37	..	36	13	3732	23	640
Barrow-in-Furness North Lonsdale Hospital	3	..	3	4	108	11	59
Blackburn and East Lancashire Royal Infirmary	48	..	35	99	3633	302	715
Blackpool Victoria Hospital	24	2	33	24	1118	..	258
Bolton Public Health Department Clinic	48	..	61	34	2816	..	708
Bootle Borough Hospital	31	..	40	4	917	64	241
Burnley Victoria Hospital	38	..	20	15	1199	144	557
Bury Tuberculosis Dispensary Clinic	28	1	22	7	1002	..	197
Liverpool Royal Infirmary	15	..	28	13	1035	2	128
Liverpool David Lewis Northern Hospital	4	..	9	1	171	..	17
Liverpool Royal Southern Hospital	4	..	..	2	67	35	17
Liverpool Stanley Hospital	4	1	5	1	226	..	61
Manchester Ancoats Hospital	23	..	21	34	867	..	107
Manchester Royal Infirmary	39	..	23	4	712	35	153
Manchester St. Luke's Hospital	13	4	52	20	714	200	86
Manchester and Salford Hospital for Skin Diseases	67	..	5	22	2215	65	229
Manchester St. Mary's Hospitals	4	..	3	13	410	..	122
Oldham Royal Infirmary	26	1	18	8	1037	48	139
Preston Royal Infirmary	51	..	32	19	1633	..	1538
Rochdale Infirmary	17	..	12	15	1500	32	332
Salford Royal Hospital	12	..	42	55	2728	175	218
St. Helens Corporation Hospital	4	..	8	5	98	10	42
Southport Royal Infirmary	2	..	10	..	231	43	26
Warrington Infirmary	11	..	7	5	649	..	71
Wigan Royal Albert Edward Infirmary	43	..	14	1	814	118	254
Other Institutions treating County residents	2	..	6	..	29	435	16
Total	598	9	545	418	29661	1742	6931

**PATHOLOGICAL EXAMINATIONS.**—The number of outfits supplied free by the County Public Health Department to medical practitioners increased from 630 in 1922 to 966 in 1923. The specimens forwarded are examined at the Pathological Laboratories of the Universities of Manchester and Liverpool, or at the Laboratory established at the Burnley Public Health Department :—

No. of outfits issued to medical practitioners in 1923.			
Wassermann test.	Detection of Spirochæta pallida.	Detection of Gonococci.	Total.
900	5	61	966

**SUPPLY OF ARSENOBENZOL COMPOUNDS.**—The following statement shows the number of doses of arsenobenzol compounds supplied during 1923, through the County Public Health Department, to medical practitioners :—

Total No. of medical practitioners "approved" for supply of these preparations.	No. of doses of Arsenobenzol Compounds supplied to medical practitioners in 1923.								
	Kharsivan.	Novarsenobillon.	Galyl.	Neokharsivan.	Novarsenobenzol	Salvarsan (Boots)	Sulfarsenol	Stabilarsen	Silver Salvarsan
123	41	327	68	18	146	2	3	120	120
									845

In the year 1922 the number of doses supplied was 517

The following additional preparations are also on the "approved" list, and supplies are available at the County



# TABLE G.

## HOSPITAL ACCOMMODATION. DISINFECTING APPARATUS. NOTIFICATIONS OF INFECTIOUS DISEASES. INDEX TO DISTRICTS:—

URBAN DISTRICTS.	Page.	URBAN DISTRICTS.	Page.
Abram .....	1	Milnrow .....	8
Accrington (B.) .....	1	Morecambe (B.) .....	9
Adlington .....	1	Mossley (B.) .....	9
Ashton-in-Makerfield ..	1	Nelson (B.) .....	9
Ashton-under-Lyne (B.)	2	Newton-in-Makerfield .	9
Aspull .....	1	Norden .....	9
Atherton .....	2	Ormskirk .....	8
Audenshaw .....	2	Orrell .....	9
Bacup (B.) .....	2	Oswaldtwistle .....	9
Barrowford .....	4	Padiham .....	4
Billinge .....	4	Poulton-le-Fylde .....	3
Blackrod .....	4	Preesall .....	3
Brierfield .....	4	Prescot .....	10
Carnforth .....	5	Prestwich .....	10
Chadderton .....	5	Radcliffe .....	10
Chorley (B.) .....	1	Rainford .....	10
Church .....	5	Ramsbottom .....	10
Clayton-le-Moors .....	5	Rawtenstall (B.) .....	10
Clitheroe (B.) .....	5	Rishton .....	10
Colne (B.) .....	5	Royton .....	5
Crompton .....	5	Skelmersdale .....	10
Croston .....	5	Standish-with-Langtree	11
Dalton-in-Furness .....	6	Stretford .....	11
Darwen (B.) .....	6	Swinton & Pendlebury..	11
Denton .....	6	Thornton .....	3
Droylsden .....	6	Tottington .....	10
Eccles (B.) .....	6	Trawden .....	11
Failsworth .....	6	Turton .....	11
Farnworth .....	6	Tyldesley-with	
Fleetwood .....	3	Shakerley .....	2
Formby .....	7	Ulverston .....	6
Fulwood .....	4	Upholland .....	11
Golborne .....	2	Urmston .....	11
Grange-over-Sands ....	7	Walton-le-Dale .....	11
Great Crosby .....	7	Wardle .....	8
Great Harwood .....	7	Waterloo-with-Seaforth	11
Haslingden (B.) .....	7	Westhoughton .....	4
Haydock .....	7	Whitefield .....	10
Heysham .....	7	Whitworth .....	12
Heywood (B.) .....	7	Widnes (B.) .....	12
Hindley .....	7	Withnell .....	12
Horwich .....	4	Worsley .....	11
Hurst .....	2		
Huyton-with-Roby ....	7	RURAL DISTRICTS.	
Ince-in-Makerfield ....	8	Barton-upon-Irwell ...	12
Irlam .....	8	Blackburn .....	12
Kearsley .....	8	Burnley .	4
Kirkham .....	3	Bury .....	10
Lancaster (B.) .....	8	Chorley .....	1
Lathom and Burscough	8	Clitheroe .....	5
Lees .....	8	Fylde .....	3
Leigh (B.) .....	2	Garstang .....	3
Leyland .....	1	Lancaster .....	12
Litherland .....	8	Leigh .....	2
Littleborough .....	8	Limehurst .....	2
Little Crosby .....	9	Lunesdale .....	12
Little Hulton .....	9	Preston .....	4
Little Lever .....	6	Sefton .....	12
Longridge .....	4	Ulverston .....	6
Lytham Saint Anne's		Warrington .....	12
(B.) .....	3	West Lancashire .....	12
Middleton (B.) .....	9	Whiston .....	13
		Wigan .....	13

# ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE (G) showing HOSPITAL ACCOMMODATION and DISINFECTING APPARATUS provided in or for each of the County Districts; also NUMBER OF CASES OF INFECTIOUS DISEASE NOTIFIED, REMOVED TO HOSPITAL, &c.

(a) (c) (d) Totals supplied by local Medical Officers of Health; (b) by Registrar-General.

District.	Nature of Hospital Accommodation.		Infectious Diseases.																				Disinfecting Apparatus and where situated.				
	For ordinary infectious diseases.	For Smallpox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																								
			Smallpox.	Diphtheria.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Puerperal Sepsis.	Meningococcal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Polio-encephalitis.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.		Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.	
*Abram ..	8 beds ..	Iron building—4 beds	(a) ..	2	1	7	..	..	..	..	..	..	..	..	..	..	..	44	13	6	..	..	..	..	73	Steam—Hospital	
			(b) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	6	2	..	..	1	..	18		
			(c) ..	2	..	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9		
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Accrington (B.)	Bury Joint Hospital by agreement	24 beds ..	(a) ..	7	27	74	1	..	..	..	..	7	..	..	..	1	..	48	41	20	..	..	..	..	226	Steam—Hyndburn Road Depot	
			(b) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	57	34	10	..	..	4	..	105		
			(c) ..	..	2	11	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	15		
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Adlington ..	Joint at Heath Charnock, 36 beds	5 beds at Finnington (Blackburn)	(a) ..	1	5	6	..	..	..	..	..	..	..	..	..	..	..	6	4	13	..	..	..	..	35	No proper apparatus	
			(b) ..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	5	1	2	..	..	1	..	10	
			(c) ..	..	..	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Chorley (B.) ..			(a) ..	14	14	10	..	..	2	..	..	2	..	..	..	..	..	..	45	34	25	..	..	..	32	178	Steam—Town's Yard
			(b) ..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	27	21	3	10	3	9	..	75	
			(c) ..	12	1	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23	
			(d) ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Leyland ..	Joint at Heath Charnock, 36 beds	5 beds at Finnington (Blackburn)	(a) ..	2	7	25	..	..	..	..	1	..	..	..	..	..	..	4	5	1	..	..	..	..	45	No proper appliances	
			(b) ..	1	..	..	..	..	..	..	1	..	..	..	..	1‡	..	6	6	1	..	1	1	..	18		
			(c) ..	..	..	21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Chorley (R.) ..			(a) ..	9	10	21	4	..	2	..	..	..	..	..	..	..	..	..	22	15	12	..	..	..	..	95	No proper appliances, but can send to Chorley (B.)
			(b) ..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	31	7	3	3	..	3	..	48	
			(c) ..	6	..	18	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27	
			(d) ..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
*Ashton-in-Makerfield	40 beds (Long Lane)	8 beds (Edge Green)	(a) ..	95	12	59	2	..	2	..	..	..	..	..	..	1	..	53	23	14	..	..	..	..	261	Steam—Hospital	
			(b) ..	2	..	..	1	..	2	..	..	..	..	..	..	..	..	28	20	5	..	8	1	..	67		
			(c) ..	93	..	55	2	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	152		
			(d) ..	2	..	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5		
*Aspull ..	At Wigan Borough hospitals ..	..	(a) ..	12	11	10	..	..	..	..	..	3	..	..	..	..	..	28	7	6	..	..	..	25	102	No proper apparatus	
			(b) ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	12	1	1	..	1	1	..	17		
			(c) ..	2	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4		
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		

\* Districts with asterisks combined in 1903 under the Wigan and District Joint Hospital Order for the purpose of providing a smallpox hospital, but no provision made. † Inward transfers. ‡ Cases not notified.

§ Deaths now classified by Registrar-General as "Tuberculosis of respiratory system." Tuberculosis cases removed to Hospital or Sanatoria not shown under (c) and (d).

|| "Acute primary pneumonia and acute influenzal pneumonia" notifiable; deaths from "all forms of pneumonia" shown under (d).





Nature of Hospital Accommodation.			Infectious Diseases.																				Apparatus and where situated.						
District.	For ordinary infectious diseases.	For Smallpox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																										
			Smallpox.	Diphtheria.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Puerperal Sepsis.	Meningococcal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Polio-encephalitis.	Acute Primary Pneumonia. Acute Influenza Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.		Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.			
Ashton under-Lyne (B.)	20 beds .. ..	Joint at Hartshead—12 beds	(a)	..	13	12	133	6	..	7	..	..	8	1	..	..	3	..	108	53	47	..	..	..	..	391	Steam—Town & Y.		
			(b)	..	1	..	2	..	..	5	..	..	..	..	..	..	3	..	53	37	15	..	17	12	..	145			
			(c)	..	4	1	95	5	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	106			
			(d)	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2			
Audenshaw ..	2 beds, Hyde Borough hospital		(a)	..	1	3	43	1	..	..	..	..	1	..	..	..	1	..	24	5	8	..	..	..	..	87	Steam—Ashton-under-Lyne (B.)		
			(b)	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	7	8	2	..	5	2	..	25			
			(c)	..	..	..	14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14			
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
Hurst ..	At Ashton-under-Lyne		(a)	..	2	5	18	1	..	..	..	..	..	..	..	..	..	..	12	5	7	..	..	..	..	50	Steam—Hospital.		
			(b)	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	9	6	2	..	5	1	..	24			
			(c)	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1			
			(d)	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1			
Limehurst (R.)	At Ashton-under-Lyne		(a)	..	3	5	45	..	..	..	..	..	2	..	..	..	..	..	13	12	11	..	..	..	..	91	Steam—Ashton-under-Lyne (B.)		
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	8	1	..	1	1	..	26			
			(c)	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3			
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
Atherton ..	Joint at Astley for all purposes :—	(a)	..	40	13	85	..	..	2	..	..	5	..	..	..	..	..	108	30	17	..	..	27	..	327	No apparatus			
		(b)	..	5	..	..	..	..	..	1½	..	..	..	..	..	..	..	..	25	14	3	14	7	3	..	72			
		(c)	..	21	..	49	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	71			
		(d)	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2			
Golborne ..		(a)	..	25	8	8	2	..	..	..	..	..	..	..	..	..	..	..	4	24	14	..	..	..	..	85	Steam—Hospital		
		(b)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	7	4	2	..	..	..	26			
		(c)	..	24	..	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	32			
		(d)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1			
Leigh (B.)		Joint at Astley for all purposes :—	(a)	..	39	20	173	4	..	3	1	1	23	..	..	..	4	..	53	49	36	..	..	..	..	406	Steam—Destructor Works		
		128 beds	(b)	..	1	..	2	2	..	1	1	..	..	..	..	..	1	..	70	43	13	..	8	3	..	145			
		32 beds	(c)	..	33	1	124	2	..	2	1	..	..	..	..	..	3	..	..	..	..	..	..	..	..	166			
			(d)	..	1	..	2	2	..	1	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	8			
Tyldesley-with-Shakerley ..		Joint at Astley for all purposes :—	(a)	..	27	10	67	8	..	..	..	..	1	..	..	..	..	..	89	15	12	..	..	..	5	234	Steam—Sanatorium		
			(b)	..	1	..	..	3	..	..	..	..	..	..	..	..	..	..	..	31	8	1	4	..	4	..	52		
			(c)	..	19	..	48	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	73		
			(d)	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3		
Leigh (R.)	Joint at Astley for all purposes :—		(a)	..	12	7	46	2	..	2	..	..	..	1	..	..	..	..	25	14	12	..	..	..	..	121	Steam—Hospital.		
			(b)	..	1	..	..	1	..	1	..	..	..	..	..	..	..	..	..	14	7	4	..	..	2	..	30		
			(c)	..	9	..	34	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	44		
			(d)	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2		
Bacup (B.)			Arrangement with Bury Joint Hospital Board	(a)	..	3	14	14	1	..	1	..	..	8	..	..	..	1	..	31	21	13	..	..	..	79	186	Steam—Town & Y.	
				(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	8	15	5	..	..	..	..	29		
				(c)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
				(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		









District.	Nature of Hospital Accommodation.		Infectious Diseases.																						Disinfectant.		
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																								
			Smallpox.	Diphtheria.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Puerperal Sepsis.	Meningococcal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Polio-encephalitis.	Acute Primary Pneumonia.	Acute Influenza Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).		Chicken-pox.	Total.
Fulwood ..	Joint at Fulwood 45 beds	Joint at Elswick (With Fylde, &c. See previous page)	(a)	..	..	3	7	..	..	..	1†	..	..	1	..	..	..	3	12	2	..	..	..	12	40	Steam—Hospital	
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	6	1	..	..	..	..	14		
			(c)	..	..	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Longridge ..	Joint at Fulwood 45 beds	Joint at Elswick (With Fylde, &c. See previous page)	(a)	..	4	..	5	..	..	..	..	..	..	..	..	..	..	2	3	3	..	..	..	..	17	Steam—Hospital	
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	4	1	2	..	..	..	12		
			(c)	..	4	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Preston (R.) ..	Joint at Fulwood 45 beds	Joint at Elswick (With Fylde, &c. See previous page)	(a)	..	5	1	22	1	..	..	..	1	1	..	..	..	..	9	22	7	..	..	..	32	101	No proper apparatus	
			(b)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	18	17	4	..	1	..	..	41		
			(c)	..	5	..	18	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	25	
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Barrowford ..	At Nelson Boro. hospital	At Nelson Boro. hospital	(a)	2	1	2	5	1	..	..	1†	..	..	..	..	..	..	8	5	..	..	..	..	10	34	Steam—Nelson (B.)	
			(b)	..	..	..	..	1	..	..	..	..	..	..	..	..	6	6	..	1	..	3	..	18			
			(c)	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3			
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
*Billinge ..	Nil ..	Cottage—4 beds	(a)	..	1	..	9	..	..	1	..	..	..	..	..	..	11	2	5	..	..	..	..	29	No proper apparatus		
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	15	1	1	..	1	1	..	19			
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
*Blackrod ..	Joint at Fall Birch, Horwich, 55 beds	Bury and District Joint Hospital	(a)	..	1	1	9	..	..	..	..	1	1	..	..	..	12	..	3	..	..	..	..	28	Steam—Hospital		
			(b)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	2	2	..	..	1	1	..	7		
			(c)	..	1	..	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7		
			(d)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
*Horwich ..	Joint at Fall Birch, Horwich, 55 beds	Bury and District Joint Hospital	(a)	..	26	..	31	..	..	..	..	..	5	..	..	..	64	13	23	22	20	..	5	209	Steam—Hospital		
			(b)	..	3	..	..	..	..	..	..	..	..	..	..	..	..	15	7	9	2	1	1	..	38		
			(c)	..	25	..	29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	54		
			(d)	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2		
*Westhoughton ..	Joint at Fall Birch, Horwich, 55 beds	Bury and District Joint Hospital	(a)	..	10	2	26	4	..	3	..	..	1	..	..	..	24	15	12	..	..	..	..	97	Steam—Hospital		
			(b)	..	..	..	1	4	..	2	..	..	..	..	..	..	..	15	14	2	..	4	2	..	44		
			(c)	..	9	..	25	4	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	39		
			(d)	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4		
Brierfield ..	Joint with Burnley (C.B.) for all purposes (Kibble Bank) (Crown Point)	Bury and District Joint Hospital	(a)	1	2	3	12	..	..	..	1	..	..	..	..	1	5	9	7	..	..	..	6	47	Steam—Nelson B.		
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	1	9	4	4	..	..	4	..	22			
			(c)	..	..	..	8	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	9			
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1			
Padiham ..	Joint with Burnley (C.B.) for all purposes (Kibble Bank) (Crown Point)	Bury and District Joint Hospital	(a)	..	7	7	28	..	..	1	..	1	2	..	..	..	12	18	16	..	..	..	26	118	Steam—Burnley C.B.		
			(b)	..	2	..	..	..	..	1	..	..	..	..	..	..	..	5	12	6	..	2	3	..	30		
			(c)	..	4	..	24	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29		
			(d)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
Burnley (R.) ..	Joint with Burnley (C.B.) for all purposes (Kibble Bank) (Crown Point)	Bury and District Joint Hospital	(a)	..	14	5	17	1	..	1	..	..	..	..	..	..	4	16	11	..	..	..	6	75	Steam—Burnley C.B.		
			(b)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	15	9	3	..	..	1	..	29	(not often used)	
			(c)	..	7	..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		



District.	Nature of Hospital Accommodation.		Infectious Diseases.																				Disinfect	Apparatus and where situated.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	For ordinary infectious diseases.	For Smallpox.	Smallpox.	Diphtheria.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Puerperal Sepsis.	Meningococcal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Polio-encephalitis.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Carnforth ..	2 wards—12 beds (Crag Bank)	Nil .. ..	(a) .. 4 .. ..	(b) .. .. ..	(c) .. .. ..	(d) .. .. ..	(a) .. 12 9 64 .. ..	(b) .. 3 .. 1 .. ..	(c) .. 8 .. 28 .. ..	(d) .. 3 .. 1 .. ..	(a) .. 9 7 30 4 .. ..	(b) .. .. .. ..	(c) .. 5 .. 20 4 .. ..	(d) .. .. .. ..	(a) .. 6 2 30 .. ..	(b) .. .. 1 .. ..	(c) .. 2 .. 8 .. ..	(d) .. .. .. ..	70 35 23 .. ..	43 16 5 3 5 2 ..	32 12 17 23 .. ..	13 11 4 .. 2 3 ..	37 18 12 .. ..	24 11 9 .. 5 3 ..	6 8 5 .. ..	11 1 .. ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 ..	1 1 1 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Nature of Hospital Accommodation.			Infectious Diseases.																							Di infected where situated				
District.	For ordinary infectious diseases.	For Smallpox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																											
			Smallpox.	Diphtheria.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Puerperal Sepsis.	Meningococcal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Polio-encephalitis.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.					
Dalton-in-Furness	Joint at High Carley—30 beds	At Barrow Boro. hospital	(a)	..	4	8	31	..	..	..	..	..	..	..	..	..	..	6	38	5	..	..	..	11	103	No apparatus				
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	19	2	5	6	..	..	45				
			(c)	..	4	..	29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33				
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
Ulverston ..					(a)	..	2	7	57	..	..	..	..	..	..	..	..	..	..	..	19	12	..	..	..	52	149	No apparatus		
					(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	6	5	..	1	1	..	17		
					(c)	..	2	..	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	51		
					(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ulverston (R.) ..							(a)	..	3	11	32	3	..	1	..	..	1	..	..	..	10	20	6	..	..	..	56	143	No apparatus	
							(b)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	7	7	3	3	3	3	..	27	
							(c)	..	3	..	27	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33	
							(d)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Darwen (B.) ..	20 beds for scarlet fever; ward for enteric fever, 8 beds, used for tuberculosis	Converted farm-house—2 beds					(a)	..	6	10	147	2	..	4	1	..	2	..	..	3	..	9	32	21	239	..	..	..	476	Steam—Hospital
							(b)	..	1	..	1	..	..	2	1	..	..	..	..	1	..	45	22	10	1	..	2	..	86	
							(c)	..	..	..	36	..	..	..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	39	
							(d)	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
Denton ..			4 beds, Hyde Boro. hospital	2 beds, Hyde ..			(a)	..	14	5	57	..	..	..	..	1	..	..	1	..	42	15	21	..	..	..	95	251	Steam disinfectant acquired in 1920 but not yet in use	
							(b)	..	1	..	..	..	..	..	..	..	..	..	1	..	16	17	6	..	3	..	..	44		
							(c)	..	1	..	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	
							(d)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Droylsden ..					3 beds, Hyde Boro. hospital	1 bed, Hyde ..	(a)	..	6	4	47	..	..	3	..	..	2	..	..	1	..	61	20	16	..	..	..	160	Steam—Destructor Works	
							(b)	..	1	..	..	..	..	1	..	..	..	..	..	1	..	20	9	2	1	3	2	..	40	
							(c)	..	3	..	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	
							(d)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Eccles (B.) ..	20 beds, Salford Boro. hospital	6 beds, Salford ..					(a)	..	12	12	51	2	..	5	..	1	15	1	..	..	54	67	40	45	..	..	384	689	Steam—Sewage Works	
							(b)	..	1	..	..	2	..	2	..	..	..	..	..	1†	..	33	43	10	2	1	5	..	100	
							(c)	..	12	2	12	1	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	32	
							(d)	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	
Fairsworth ..			At Oldham Borough hospital	Chadderton, &c., Joint Board—2 beds			(a)	..	26	6	78	2	..	1	1	..	3	2	..	1	..	63	28	18	..	..	71	300	Steam—Oldham C.B.	
							(b)	..	6	..	..	..	..	..	..	..	..	..	..	1	..	18	23	3	1	1	4	..	57	
							(c)	..	10	..	30	1	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	43	
							(d)	..	2	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	3	
Farnworth ..					50 beds	At Bury, &c., joint hospital	(a)	..	21	17	55	3	..	3	..	..	6	..	..	..	49	51	25	..	..	..	230	Steam—Hospital		
							(b)	..	1	..	..	..	..	1	..	..	..	..	..	..	..	35	23	6	3	3	5	..	77	
							(c)	..	11	..	51	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	63		
							(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Little Lever ..	At Farnworth hospital	At Bury, &c., joint hospital					(a)	..	2	8	10	..	..	..	..	..	..	..	..	..	1	2	2	..	..	..	25	Steam—Hospital		
							(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	3	..	..	3	..	10		
							(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
							(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	



[illegible]





Nature of Hospital Accommodation.			Infectious Diseases.																				District.			
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																							
District.	For ordinary infectious diseases.	For Smallpox	Smallpox.	Diphtheria.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Puerperal Sepsis.	Meningococcal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Polio-encephalitis.	Acute Primary Pneumonia. Acute Influenza Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.
Little Crosby ..	At Liverpool Borough hospitals	..	(a) ..	..	1	1	..	..	..	..	..	..	..	..	..	1	..	..	2	..	..	..	..	5	Dry-heat—Great Crosby	
			(b) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
			(c) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Little Hulton	At Bolton Boro. hospital and at Leigh joint hospital	Nil .. ..	(a) ..	7	2	6	..	..	..	..	..	4	..	..	..	1	..	2	11	9	..	..	..	42	Steam—Hospital	
			(b) ..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	4	4	..	3	..	1	..	13	
			(c) ..	5	..	1	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	8		
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1		
Middleton (B.) ..	At Rochdale Boro. hospital	At Chadderton &c., joint hospital	(a) ..	11	5	97	5	..	..	..	1	2	..	..	..	..	..	93	24	12	..	..	105	355	Steam—Corporation Street	
			(b) ..	1	..	3	..	..	..	..	..	..	..	..	..	..	..	27	19	6	6	1	4	..	67	
			(c) ..	7	..	57	4	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	69		
			(d) ..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3		
Morecambe (B.)	25 beds and 2 cots	10 beds and 2 cots	(a) ..	11	11	32	2	..	..	..	..	..	..	..	..	2	..	..	20	6	..	..	..	84	Steam—near Electricity Works	
			(b) ..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	5	15	2	..	..	..	24		
			(c) ..	7	..	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37		
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Mossley (B.) ..	Nil .. ..	At Ashton-under-Lyne joint hospital	(a) ..	4	3	42	1	..	..	..	..	1	..	..	..	..	..	1	13	21	..	..	..	86	Steam—Corporation Yard	
			(b) ..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	12	13	7	3	1	1	..	39	
			(c) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Nelson (B.) ..	12 beds (Catlow) for scarlet fever	32 beds (Catlow) ..	(a) 69	4	12	42	3	..	3†	..	..	3	..	..	..	2	..	23	24	10	..	..	26	218	Steam—Destructor Works	
			(b) ..	..	..	..	1	..	..	..	..	..	..	..	..	2	..	25	19	11	2	..	5	..	68	
			(c) 69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	69		
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Newton-in-Maker-field	26 beds ..	At Liverpool Boro. hospital	(a) ..	10	16	51	..	..	..	..	..	2	..	..	..	1	..	98	20	10	..	150	..	358	Steam—Hospital	
			(b) ..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	22	11	1	2	7	3	..	48	
			(c) ..	10	..	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	52		
			(d) ..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2		
Norden ..	Nil .. ..	Converted farmhouse—4 beds	(a) ..	1	1	9	..	..	2	..	..	1	..	..	..	..	..	3	..	..	..	..	..	17	No proper apparatus	
			(b) ..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	3	..	1	..	..	..	5		
			(c) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
*Orrell ..	Nil .. ..	Arrangement with Billinge	(a) ..	12	4	6	5	..	1	..	..	..	..	..	..	..	..	3	12	7	..	..	..	50	No proper apparatus	
			(b) ..	3	..	..	1	..	..	..	..	..	..	..	..	..	..	10	6	1	..	7	1	..	29	
			(c) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
			(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Oswaldtwistle ..	Nil, but cases occasionally sent to Blackburn C.B. No agreement	19 beds ..	(a) ..	8	10	12	1	..	2	..	..	7	..	..	..	..	..	28	10	6	..	..	..	84	Steam—Gas Works	
			(b) ..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	13	5	4	..	..	..	28		
			(c) ..	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3		
			(d) ..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		



[illegible]





District.	Nature of Hospital Accommodation.		Infectious Diseases.																						Disinfect.	Apparatus and where situated
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																							
			Smallpox.	Diphtheria.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Puerperal Sepsis.	Meningococcal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Polio-encephalitis.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.		
*Standish with- Langtree ..	Cases are sent to Wigan C.B. hospitals by arrangement	Nil .. ..	(a) .. 2 5 4 1 .. .. .. .. .. .. .. .. .. 48 .. 4 5 .. .. .. 69	(b) .. 1 .. .. .. .. .. .. .. .. .. 13 .. 3 .. .. .. .. 24	(c) .. 1 .. .. 1 1 .. .. .. .. .. .. .. .. .. .. .. .. .. .. 3	(d) ..																			No apparatus	
Stretford ..	At Salford Borough hospitals (18 beds)	(6 beds)	(a) .. 30 14 230 1 .. .. .. .. 9 .. .. .. 6 .. .. 56 72 27 162 159 .. 382 1148	(b) .. 3 .. 2 .. .. .. .. .. .. .. .. 3 .. .. 44 33 7 2 2 6 .. 103	(c) .. 21 1 123 1 .. .. .. .. .. .. .. .. 2 .. .. .. .. .. .. .. .. 148	(d) .. 2 .. 2 .. .. .. .. .. .. .. .. .. .. .. .. .. .. .. 6																			Steam—Sanitary Depôt	
Swinton and Pendlebury ..	At Salford Boro. hospital (14 beds)	Joint at Linny- shaw Moss— 20 beds	(a) .. 25 22 127 5 .. .. .. .. 1 4 .. .. 1 .. 104 46 23 .. .. 384 742	(b) .. .. .. 4 2 .. .. .. .. .. .. .. .. 35 29 10 2 12 4 .. 99	(c) .. 8 1 66 4 .. .. .. .. .. .. .. .. 1 .. .. .. .. .. .. .. .. 80	(d) .. .. .. 2 2 .. .. .. .. .. .. .. .. 1 .. .. .. .. .. .. .. .. 5																			Steam—Destructor Works	
Worsley ..	At Salford Boro. hospital (6 beds)		(a) .. 7 2 32 .. .. .. 2 .. 1 .. .. 3 12 10 .. .. 17 87	(b) .. 1 .. 1 .. .. .. 1 .. .. .. .. 5 6 .. .. .. 1 .. 16	(c) .. .. .. 7 .. .. .. .. .. .. .. .. .. .. .. .. .. .. 7	(d) ..																		Steam—Salford C.B.		
Fawcett ..	At Colne Borough hospitals		(a) .. .. .. 4 .. .. .. .. .. .. .. .. 1 .. .. .. .. 1 2 .. 3 .. .. 6	(b) .. .. .. .. .. .. .. .. .. .. .. .. .. .. 1 .. .. .. .. .. .. .. .. 5	(c) .. .. .. .. .. .. .. .. .. .. .. .. .. .. 1 .. .. .. .. .. .. .. .. 1	(d) ..																			Steam—Nelson (B.).	
Furton ..	At Bury, &c., joint hospital		2 beds (Bury, &c., joint hospital)	(a) .. 3 .. 42 2 .. .. 1 .. .. .. .. 1 .. .. 22 4 7 .. .. 82	(b) .. .. .. 18 .. .. .. .. .. .. .. .. .. 12 6 1 .. .. 19	(c) .. .. .. .. 18 .. .. .. .. .. .. .. .. .. .. .. .. .. .. 18	(d) ..																			No apparatus
*Upholland ..	Nil. Occasionally sent to Wigan C.B.	Tent—8 beds	(a) .. 1 .. 35 3 .. .. .. .. .. .. .. .. .. 6 3 9 .. .. 51	(b) .. .. .. .. .. .. .. .. .. .. .. .. .. .. 2 2 .. 1 .. 11	(c) ..	(d) ..																			Steam—Billinge Workhouse	
Urmston ..	At Salford Borough hospitals (5 beds)	(2 beds)	(a) .. 1 3 3 .. .. .. .. .. .. .. .. 1 .. .. 28 4 3 .. .. 43	(b) .. .. .. .. .. .. .. .. .. .. .. .. .. .. 10 5 .. 1 2 .. 18	(c) .. .. .. .. .. .. .. .. .. .. .. .. .. .. 1 .. .. .. .. .. 1	(d) ..																			Steam—Salford C.B.	
Walton le-Dale	20 beds (School Lane)	8 beds (Bradkirk)	(a) .. 7 6 25 3 .. .. 1 .. 1 .. .. 7 16 17 .. .. 24 107	(b) .. .. .. .. .. .. .. .. .. 1 .. .. .. 5 6 5 .. .. 2 19	(c) .. 7 .. 22 3 .. .. .. .. .. .. .. .. .. .. .. .. .. 32	(d) ..																			Steam—Hospital	
Waterloo-with- Seaforth ..	At Liverpool Borough hospitals		(a) .. 29 4 58 3 .. .. .. 1 3 .. .. 29 41 26 409 .. 17 .. 626	(b) .. .. .. 2 .. .. .. .. 1 3 .. .. 44 26 10 3 2 2 .. 89	(c) .. 24 1 41 .. .. .. .. .. .. .. .. 1 .. .. .. .. .. 68	(d) .. .. .. 2 .. .. .. .. .. .. .. .. .. .. .. .. .. .. 2																			Steam—Council's Yard	





District.	Nature of Hospital Accommodation.		Infectious Diseases.																				Disinfection			
	For ordinary infectious diseases.	For Smallpox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																							
			Smallpox.	Diphtheria.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Puerperal Sepsis.	Meningococcal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Polio-encephalitis.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.		Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.
Whitworth ..	Arrangement with Rochdale C.B.	Cottage—12 beds	(a)	..	1	6	5	2	..	..	..	..	1	..	..	..	..	21	9	3	..	..	..	41	89	No apparatus
			(b)	..	..	..	..	2	..	..	..	..	..	..	..	..	..	13	8	1	1	..	..	..	25	
			(c)	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	
			(d)	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	
Widnes (B.) ..	36 beds (Crow Wood)	8 beds (Barrow's Green)	(a)	..	82	11	291	2	..	3	..	1	3	..	..	..	..	200	62	50	..	..	..	..	705	Steam—Hospital
			(b)	..	8	..	5	1	..	..	1†	..	3	..	..	..	..	43	32	7	5	15	14	..	131	
			(c)	..	49	..	234	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	284	
			(d)	..	2	..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	
Withnell ..	25—30 beds	1 bed at Finnington (Blackburn)	(a)	..	1	1	2	1	..	..	..	..	..	..	..	..	..	3	..	3	..	..	..	..	11	No apparatus
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	1	1	..	..	..	7	
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Barton-upon-Irwell (R.) ..	At Salford Borough hospitals (5 beds)	2 beds	(a)	..	5	2	20	1	..	1	..	3	..	..	1	..	..	24	12	7	..	..	..	..	76	Steam—Moor Wheel Salford
			(b)	..	1	..	1	..	..	1	..	..	..	..	..	1	..	13	7	2	..	2	1	..	29	
			(c)	..	2	..	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	
			(d)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Blackburn (R.) ..	Nil.—Cases can be removed to Blackburn C.B., Chorley (joint), & Withnell fever hospitals	1 bed at Finnington (Blackburn)	(a)	..	1	2	19	..	..	..	..	2	..	..	..	..	..	5	8	2	..	..	..	..	39	Steam—Blackburn C.B.
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	8	..	..	2	1	..	17	
			(c)	..	..	..	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Lancaster (R.) ..	At Lancaster Borough hospitals		(a)	..	..	3	16	1	..	..	..	..	..	..	1	..	..	2	4	4	..	..	..	..	31	No apparatus
			(b)	..	..	..	..	..	..	1†	..	..	..	..	..	..	..	3	5	5	2	2	..	..	18	
			(c)	..	..	..	13	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Lunesdale (R.) ..	Hospital at Farleton (12 beds)		(a)	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	5	1	..	..	..	..	8	Steam—Lancaster (B.)
			(b)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	3	6	..	..	3	..	..	13	
			(c)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
			(d)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Sefton (R.) ..	At Liverpool Borough hospitals		(a)	..	5	3	10	..	..	..	..	1	..	..	..	..	..	3	6	..	..	..	..	..	28	Steam—Liverpool C.B.
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	5	..	..	..	..	..	11	
			(c)	..	5	..	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Warrington (R.) ..	At Warrington C.B. and Newton-in-Makerfield	At Warrington C.B.	(a)	..	5	3	24	1	..	1	1	..	2	..	..	..	..	34	15	22	..	..	..	..	108	Steam—Hospital
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	8	1	..	4	..	..	26	
			(c)	..	2	..	12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
West Lancashire (R.)	26 beds—(Aughton)	Tent—8 beds. Arrangement with Liverpool Corporation for additional accommodation	(a)	..	6	6	29	1	..	..	..	1	..	..	..	1	..	37	20	6	..	..	..	..	107	Steam—Hospital
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	26	13	4	1	1	2	..	47	
			(c)	..	6	..	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33	
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	



District.	Nature of Hospital Accommodation.		Infectious Diseases.																				Disinfecting Apparatus and where situated.				
	For ordinary infectious diseases.	For Smallpox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																								
			Smallpox.	Diphtheria.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Puerperal Sepsis.	Meningococcal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Polio-encephalitis.	Acute Primary Pneumonia.	Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.		Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.
Whiston (R.) ..	36 beds .. ..	20 beds .. ..	(a)	..	9	2	43	2	..	..	..	..	..	..	15	1	..	12	58	17	..	..	..	..	159	Steam—Sanatorium	
			(b)	..	..	..	..	..	..	1†	..	..	..	..	..	2†	..	18	13	4	1	..	..	..	39		
			(c)	..	7	..	30	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	39		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
*Wigan (R.) ..	Cases are sent to Wigan C.B. hospital by arrangement	Cottage—4 beds	(a)	..	5	6	17	..	..	..	..	..	..	..	..	..	..	19	11	7	..	..	..	..	65	No apparatus	
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	1	1	1	..	1	..	13		
			(c)	..	..	1	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
County, 1923 —			(a)	77	1209	729	4346	142	1	77	11	23	210	14	..	77	61	2	3239	2045	1305	901	375	44	2481	17369	Total houses or rooms disinfected
Total cases notified .. ..			(b)	..	96	..	58	38	..	42	12	3	..	..	..	37	2	1848	1250	412	131	208	218	..	4355		
„ deaths .. ..			(c)	75	736	26	2422	71	..	17	3	3	8	..	..	19	..	..	..	..	..	..	..	..	3380		
„ removals to hospital .. ..			(d)	..	39	..	40	25	..	6	1	..	..	..	..	13	..	..	..	..	..	..	..	..	124		
„ deaths in hospital .. ..																											

† One case at Whiston (R.) not notified.



# TABLE G.

## HOSPITAL ACCOMMODATION. DISINFECTING APPARATUS. NOTIFICATIONS OF INFECTIOUS DISEASES. INDEX TO DISTRICTS:—

URBAN DISTRICTS.		URBAN DISTRICTS.	
	Page.		Page.
Abram .....	1	Milnrow .....	8
Accrington (B.) .....	1	Morecambe (B.) .....	9
Adlington .....	1	Mossley (B.) .....	9
Ashton-in-Makerfield ..	1	Nelson (B.) .....	9
Ashton-under-Lyne (B.)	2	Newton-in-Makerfield .	9
Aspull .....	1	Norden .....	9
Atherton .....	2	Ormskirk .....	8
Audenshaw .....	2	Orrell .....	9
Bacup (B.) .....	2	Oswaldtwistle .....	9
Barrowford .....	4	Padiham .....	4
Billinge .....	4	Poulton-le-Fylde .....	3
Blackrod .....	4	Preesall .....	3
Brierfield .....	4	Prescot .....	10
Carnforth .....	5	Prestwich .....	10
Chadderton .....	5	Radcliffe .....	10
Chorley (B.) .....	1	Rainford .....	10
Church .....	5	Ramsbottom .....	10
Clayton-le-Moors .....	5	Rawtenstall (B.) .....	10
Clitheroe (B.) .....	5	Rishton .....	10
Colne (B.) .....	5	Royton .....	5
Crompton .....	5	Skelmersdale .....	10
Croston .....	5	Standish-with-Langtree	11
Dalton-in-Furness .....	6	Stretford .....	11
Darwen (B.) .....	6	Swinton & Pendlebury..	11
Denton .....	6	Thornton .....	3
Droylsden .....	6	Tottington .....	10
Eccles (B.) .....	6	Trawden .....	11
Failsworth .....	6	Turton .....	11
Farnworth .....	6	Tyldesley-with	
Fleetwood .....	3	Shakerley .....	2
Fornby .....	7	Ulverston .....	6
Fulwood .....	4	Upholland .....	11
Golborne .....	2	Urmston .....	11
Grange-over-Sands .....	7	Walton-le-Dale .....	11
Great Crosby .....	7	Wardle .....	8
Great Harwood .....	7	Waterloo-with-Seaforth	11
Haslingden (B.) .....	7	Westhoughton .....	4
Haydock .....	7	Whitefield .....	10
Heysham .....	7	Whitworth .....	12
Heywood (B.) .....	7	Widnes (B.) .....	12
Hindley .....	7	Withnell .....	12
Horwich .....	4	Worsley .....	11
Hurst .....	2	RURAL DISTRICTS.	
Huyton-with-Roby .....	7	Barton-upon-Irwell ...	12
Ince-in-Makerfield .....	8	Blackburn .....	12
Irlam .....	8	Burnley .....	4
Kearsley .....	8	Bury .....	10
Kirkham .....	3	Chorley .....	1
Lancaster (B.) .....	8	Clitheroe .....	5
Lathom and Bursecough	8	Fylde .....	3
Lees .....	8	Garstang .....	3
Leigh (B.) .....	2	Lancaster .....	12
Leyland .....	1	Leigh .....	2
Litherland .....	8	Lincoln .....	2
Littleborough .....	8	Limesdale .....	12
Little Crosby .....	9	Preston .....	4
Little Hulton .....	9	Sefton .....	12
Little Lever .....	6	Ulverston .....	6
Longridge .....	4	Warrington .....	12
Lytham Saint Anne's		West Lancashire .....	12
(B.) .....	3	Whiston .....	13
Middleton (B.) .....	9	Wigan .....	13



Public Health Department :—Arsenobillon, Diarsenol, Arsenobenzol, Neo-Salvarsan (Boots), Salvarsan (A. C. Henry), Neo-Salvarsan and Sodium Salvarsan (A. C. Henry), Novarsan, and Arseno-Argentum.

EDUCATIONAL AND PROPAGANDA WORK.—Educational work has been continued by the County Public Health Department throughout the year 1923, mainly by the services of Miss Tipper, Organising Lecturer. The approximate number of persons who have attended the lectures, &c., is shown below :—

Lectures and Addresses by Organising Lecturer, &c.			Medical Lectures.			Lectures to Teachers.	Lantern Lectures.	Film Lectures.	Works Meetings.	Total.
Men.	Women	Mixed	Men.	Women	Mixed.					
..	3125	360	1340	..	60	540	520	13400	100	19445

ADMINISTRATION OF COUNTY SCHEME.—Appended to this report, pages 145–165, is a copy of a Paper by the County Medical Officer of Health on “Some of the difficulties experienced in the administration of a County Venereal Diseases Scheme.”

Notification of Infectious Diseases.—Table “G,” here inserted, gives the number of cases of infectious disease notified in each urban and rural district in the Administrative County during the year 1923, under the Infectious Disease (Notification) Act, 1889, the Public Health (Tuberculosis) Regulations, and under various other Regulations and Orders.

The following statement, compiled from the information supplied by local Medical Officers of Health in their Annual Reports, shows that the notifications in 1923 amounted in the aggregate to 17,369 :—

					1922.	1923.
Smallpox ...	...	...	...	...	11 ...	77
Diphtheria ...	...	...	...	...	1,569 ...	1,209
Erysipelas ...	...	...	...	...	781 ...	729
Scarlet Fever ...	...	...	...	...	5,631 ...	4,346
Enteric Fever ...	...	...	...	...	126 ...	142
Continued Fever ...	...	...	...	...	1 ...	1
Puerperal Fever ...	...	...	...	...	102 ...	77
Meningococcal Meningitis (Cerebro-						
Spinal Fever) ...	...	...	...	...	18 ...	11
Poliomyelitis ...	...	...	...	...	12 ...	23
Ophthalmia Neonatorum ...	...	...	...	...	237 ...	210
Pulmonary Tuberculosis ...	...	...	...	...	1,969 ...	2,045
Other forms of Tuberculosis ...	...	...	...	...	1,031 ...	1,305
*Measles and German Measles ...	...	...	...	...	3,462 ...	90
*Whooping Cough... ...	...	...	...	...	152 ...	37
*Infantile Diarrhoea ...	...	...	...	...	12 ...	4
*Chicken-pox ...	...	...	...	...	1,069 ...	2,488
Malaria ...	...	...	...	...	22 ...	1
Dysentery... ...	...	...	...	...	195 ...	7
Acute Primary Pneumonia and Acute						
Influenzal Pneumonia ...	...	...	...	...	3,123 ...	3,2
Encephalitis Lethargica ...	...	...	...	...	17 ...	
Polio-Encephalitis ...	...	...	...	...	— ...	
Totals ...					19,540 ...	17,3

\* Notifiable in a few districts only.

There were marked decreases in the measles, scarlet fever and diphtheria notifications, whilst increases were recorded in chicken-pox, tuberculosis, pneumonia, &c.

Table "H," here inserted, gives the age periods of notified cases.

TABLE H.

## ADMINISTRATIVE COUNTY OF LANCASTER.

NOTIFICATIONS OF INFECTIOUS DISEASE IN AGE PERIODS FOR THE YEAR 1923.

Disease.	Total Cases at all Ages.	Under 1 year.	1—2	2—3	3—4	4—5	5—10	10—15	15—20	20—35	35—45	45—65	65 and up- wards.
Smallpox ... ..	77	...	3	3	2	...	12	22	15	11	1	7	1
Diphtheria ... ..	1209	18	44	80	104	72	*424	215	100	114	23	14	1
Erysipelas ... ..	729	18	1	2	4	4	10	29	35	112	129	286	99
Scarlet fever ... ..	4346	31	103	193	334	314	1683	1024	325	263	52	20	4
Enteric fever ... ..	142	...	...	1	...	2	11	15	28	36	20	28	1
Continued fever ... ..	1	...	...	...	...	...	...	...	...	...	...	1	...
Interperal fever ... ..	77	...	...	...	...	...	...	...	2	56	19	...	...
Cerebro-spinal fever ... (meningococcal meningitis)	11	2	...	...	...	1	4	1	...	2	...	1	...
Poliomyelitis ... ..	23	1	3	3	5	3	1	4	2	...	1	...	...
Polio-encephalitis ... ..	2	...	...	...	...	...	...	1	...	...	1	...	...
Ophthalmia neonatorum ...	210	210	...	...	...	...	...	...	...	...	...	...	...
Malaria ... ..	14	...	...	...	...	...	...	...	...	7	7	...	...
Typh fever ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...
Shentery ... ..	*77	...	...	...	1	...	...	...	...	7	4	3	1
Cephalitis lethargica ...	61	...	1	2	2	...	4	11	6	13	10	11	1
Acute primary pneumonia & acute influenzal pneumonia	3239	261	295	225	184	102	375	170	191	496	325	443	172
Tuberculosis:—													
Pulmonary—													
Total ...	2045	4	6	7	6	10	92	115	199	825	383	369	29
Males ...	1087	3	2	3	1	4	45	48	87	409	227	244	14
Females ...	958	1	4	4	5	6	47	67	112	416	156	125	15
Non-pulmonary—													
Total ...	1305	37	59	53	58	39	253	229	172	239	71	78	14
Males ...	†650	20	33	28	30	20	140	115	87	99	33	33	0
Females ...	655	17	26	25	28	19	113	114	85	140	38	45	5
Total ... ..	*†13568	582	515	569	700	547	2869	1836	1075	2181	1046	1261	323

\* Includes 61 cases occurring in a public institution, ages not stated.

† Includes 3 cases ages not stated.

Other notifications (in a few districts)—age periods not given—measles 901, whooping-cough 375, chickenpox 2481, infantile diarrhoea 44. Total notifications in County, 17,369.

TABLE H.

NOTIFICATIONS OF INFECTIOUS DISEASES  
IN AGE PERIODS.

Chicken-pox was "notifiable" in 1923 in 41 County districts, measles in seven districts, and whooping-cough in four districts.

**Isolation Hospitals.**—Table "G," inserted opposite page 67, shows the nature of the hospital accommodation provided in, or available for, each County sanitary district, and also gives for each district—

- (a) the number of cases of infectious disease notified ;
- (b) the total deaths from such diseases ;
- (c) the number of cases removed to hospital ; and
- (d) the number of deaths in hospital.

The table below gives the percentage of removals to hospital in 1923 of cases of smallpox, scarlet fever, diphtheria, and enteric fever, and contrasts the mortality of cases isolated in hospital with that of cases treated at home :—

	Total cases notified.	Hospital Treatment.			Home Treatment.		Case mortality per cent.	
		Cases removed to hospital.	Percentage of removals.	Deaths in hospital.	Cases treated at home.	Deaths at home.	In hospital.	At home.
smallpox ..	77	*75	97.4	..	*2	..	..	..
scarlet Fever.	4346	2422	55.7	40	1924	18	1.65	0.93
diphtheria ..	1209	736	60.8	39	473	57	5.29	12.05
enteric Fever.	142	71	50.0	25	71	13	35.21	18.30

\* Two cases of smallpox discovered in convalescent stage not removed to hospital.

The percentage of removals to hospital in the previous year were : scarlet fever 54.3, diphtheria 56.4, and enteric fever 57.9.

During the year a few local authorities made arrangements for the hospital isolation of infectious cases, viz.,

Hurst (at Ashton-under-Lyne), Lees (for smallpox at Chadderton), Orrell (for smallpox at Billinge), Whitworth (at Rochdale) Standish-with-Langtree (at Wigan), and Wigan (R.) (at Wigan). At Mossley (B.) the use of May Hills smallpox hospital has been discontinued and arrangements made with Ashton-under-Lyne.

**Disinfection.**—The following statement, showing the position of the County districts in regard to the provision of disinfecting apparatus, is prepared from information supplied by local Medical Officers of Health :—

Districts provided with steam apparatus or using steam apparatus at hospitals ... ..	64
„ using steam apparatus belonging to other districts (mainly County or Municipal Boroughs) ... ..	24
„ provided with dry-heat apparatus ...	1
„ using dry-heat apparatus belonging to another district ... ..	1
„ without proper appliances ... ..	31

Table “ G ” shows the position of each County district in regard to means of disinfection. The provision of modern apparatus is urged by the Medical Officers of Health of Chadderton, Darwen (B.), Denton, Great Harwood, Leyland, Rishton, and Withnell.

Houses or rooms disinfected in 1923 numbered 10,467.

**Special Sanitary Inspection of County Districts.**—Sixty-six of the County districts have been specially inspected by the County Council's Public Health Staff, and 54 of these districts have been re-inspected.

**Housing.**—Table “ I,” here inserted, is a statement extracted from the reports of local Medical Officers of Health showing the action taken in each district during the year 1923 in regard to housing accommodation, the remedying of defects, and the provision of new houses.



## ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE I.—HOUSING. SUMMARY OF WORK CARRIED OUT DURING THE YEAR 1923 UNDER THE HOUSING AND PUBLIC HEALTH ACTS.

TABLE I.—HOUSING. SUMMARY OF WORK CARRIED OUT DURING THE YEAR 1923 UNDER THE HOUSING ACTS.																							
DISTRICT.	UNFIT DWELLING HOUSES.					ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.													No. of houses demolished voluntarily by owners or converted to workshops.	NEW HOUSES.			
	Total No. inspected for Housing defects.	No. inspected under Housing Regulations.	No. found unfit for habitation	No. found not reasonably fit for habitation.	No. rendered fit as result of informal action.	Under Section 28, Housing, Town Planning, &c., Act, 1919.			Under the Public Health Acts.			Proceedings under Sections 17 and 18 of Housing, Town Planning, &c., Act, 1909.								No. of new houses erected during the year.			
						No. in respect of which notices served requiring repairs.	No. rendered fit.		No. closed voluntarily.	No. in respect of which notices served to remedy defects.	No. in which defects remedied.		No. of representations with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders determined dwellings having been rendered fit	No. in respect of which Demolition Orders made.	No. demolished in pursuance of Demolition Orders.	Total.		With State Assistance under Housing Acts of 1919 or 1923.		No. of houses in course of erection under Council's Building Scheme	
							By owners.	By Local Authority in default of owners.			By owners.	By Local Authority in default of owners.								By Local Authority.	By other bodies or persons.		
URBAN—																							
... ram ... ..	69	29	...	20	40	20	20	...	...	20	20	...	...	...	...	...	...	...	...	1	...	...	...
... erington (B.) ... ..	17	...	...	17	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19	...	...	102
... llington ... ..	68	68	...	32	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
... hton-in-Makerfield ...	774	167	17	330	170	...	...	...	2	166	106	...	17	17	15	...	...	...	...	5	...	...	...
... hton-under-Lyne (B.) ...	579	265	...	4	193	...	...	...	...	241	229	...	...	...	...	...	...	...	5	176	30	116	30
... spull ... ..	283	106	...	275	190	...	...	...	...	19	19	...	...	...	...	...	...	...	...	1	...	...	...
... therton ... ..	237	237	...	157	103	34	34	...	...	41	41	...	...	...	...	...	...	...	...	25	10	...	42
... ndenshaw... ..	47	36	...	47	27	...	19	...	...	...	8	...	...	...	...	...	...	...	...	15	...	15	...
... eup (B.) ... ..	28	28	...	...	28	...	...	...	...	28	28	...	...	...	...	...	...	...	...	18	14	2	40
... arrowford... ..	46	33	...	14	7	...	...	...	...	19	19	...	...	...	...	...	...	...	...	5	...	...	...
... illinge ... ..	49	9	2	47	47	...	...	...	...	...	...	...	2	2	...	2	...	...	...	1	...	...	...
... Mackrod ... ..	21	17	...	17	4	...	...	...	...	14	1	...	...	...	...	...	...	...	...	...	...	...	...
... rierfield ... ..	95	50	...	5	5	5	5	...	...	...	...	...	...	...	...	...	...	...	...	13	...	...	...
... arnforth ... ..	100	35	...	...	20	20	10	...	...	31	31	...	...	...	...	...	...	...	...	4	4	...	...
... hadderton ... ..	610	10	...	...	...	...	...	...	...	610	530	...	...	...	...	...	...	...	6	6	...	5	...
... horley (B.) ... ..	98	98	...	94	52	42	26	4	...	...	...	...	...	...	...	...	...	...	...	13	...	...	48
... hurch ... ..	77	7	...	5	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
... ayton-le-Moors ... ..	310	247	...	...	180	3	3	...	...	1	...	1	...	...	...	...	...	...	...	3	...	...	...
... itheroe (B.) ... ..	138	138	1	63	45	...	...	...	...	...	...	...	1	...	...	...	...	...	...	15	2	...	10
... olne (B.) ... ..	540	416	...	38	31	7	5	...	...	134	127	...	...	...	...	...	...	...	3	8	...	8	...
... rompton ... ..	162	59	8	91	76	22	12	...	...	22	20	...	...	...	...	...	...	...	...	29	20	9	...
... oston ... ..	12	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
... Dalton-in-Furness...	89	...	...	...	...	89	92	20	...	135	92	20	...	...	...	...	...	...	...	4	...	...	...



TABLE I.—Continued.

DISTRICT.	UNFIT DWELLING HOUSES.					ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.													No. of houses demolished voluntarily by owners or converted to workshops.	NEW HOUSES.			
	Total No. inspected for Housing defects.	No. inspected under Housing Regulations.	No. found unfit for habitation.	No. found not reasonably fit for habitation.	No. rendered fit as result of informal action.	Under Section 28, Housing, Town Planning, &c., Act, 1919.				Under the Public Health Acts.			Proceedings under Sections 17 and 18 of Housing, Town Planning, &c., Act, 1909.							No. of new houses erected during the year.			
						No. in respect of which notices served requiring repairs.	No. rendered fit.		No. closed voluntarily.	No. in respect of which notices served to remedy defects.	No. in which defects remedied.		No. of representations with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders determined dwellings having been rendered fit.	No. in respect of which Demolition Orders made.	No. demolished in pursuance of Demolition Orders.	Total.		With State Assistance under Housing Acts of 1919 or 1923.		No. of houses in course of erection under Council's Building Scheme.	
							By owners.	By Local Authority in default of owners.			By owners.	By Local Authority in default of owners.								By Local Authority.	By other bodies or persons.		
... (B.) ...	3144	83	1	28	9	...	...	...	...	30	36	...	1	1	...	...	...	...	30	26	...	16	
... ..	265	59	...	41	132	...	...	...	...	41	34	...	...	...	...	...	...	...	8	...	...	...	
... ..	446	3	...	14	99	14	14	...	...	23	23	...	...	...	...	...	1	...	16	16	...	...	
... (B.) ...	2588	742	...	742	1536	512	503	63	...	707	497	548	...	...	...	...	...	...	301	277	...	...	
... ..	339	...	...	152	12	...	...	...	...	140	133	...	...	...	...	...	...	...	...	...	...	...	
... ..	570	243	19	533	30	241	146	...	...	244	189	...	19	19	...	3	3	3	3	...	...	30	
... ..	13	13	1	12	12	...	...	...	...	...	...	...	1	1	1	...	...	...	105	34	71	36	
... ..	50	41	...	36	27	...	...	...	...	12	10	...	...	...	...	...	...	...	50	...	...	...	
... ..	42	42	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	43	...	...	...	
... ..	87	...	...	1	72	2	...	...	...	2	...	...	...	...	...	...	...	...	1	...	...	...	
... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20	...	...	...	
... Crosby ...	378	12	...	36	36	...	...	...	...	6	6	...	...	...	...	...	...	...	49	...	...	...	
... Harwood ...	94	94	94	...	94	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
... ..	175	...	1	...	...	...	...	...	...	207	195	...	1	1	...	...	...	...	12	12	...	...	
... ..	65	65	...	49	49	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	
... ..	8	1	1	...	...	7	7	...	...	...	...	...	1	...	...	...	...	...	51	...	...	...	
... ..	81	...	...	...	...	...	...	...	...	211	211	...	...	...	...	...	...	...	10	...	...	...	
... ..	1081	508	6	502	328	...	...	...	...	573	471	...	4	4	1	...	...	1	...	...	...	...	
... ..	96	23	...	96	55	28	20	...	...	13	13	...	...	...	...	...	...	...	3	...	...	...	
... ..	110	110	...	61	22	...	...	...	...	22	22	...	...	...	...	...	...	...	9	...	...	...	
... ..	400	50	...	71	76	...	...	...	...	71	71	...	...	...	...	...	...	...	13	...	...	...	
... ..	800	474	...	272	235	...	...	...	...	37	37	...	...	...	...	...	...	...	1	...	...	...	
... ..	108	64	...	105	31	60	67	1	5	10	10	...	...	...	...	...	...	1	40	26	...	24	
... ..	293	67	15	278	254	...	...	...	...	278	254	...	15	15	...	...	...	...	2	...	...	...	





TABLE I.—Continued.

[illegible]









TABLE I.—Continued.

DISTRICT.	UNFIT DWELLING HOUSES.					ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.															No. of houses demolished voluntarily by owners or converted to workshops.	NEW HOUSES.			
	Total No. inspected for Housing defects.	No. inspected under Housing Regulations.	No. found unfit for habitation.	No. found not reasonably fit for habitation.	No. rendered fit as result of informal action.	Under Section 28, Housing, Town Planning, &c., Act, 1919.				Under the Public Health Acts.			Proceedings under Sections 17 and 18 of Housing, Town Planning, &c., Act, 1909.					No. of new houses erected during the year.							
						No. in respect of which notices served requiring repairs.	No. rendered fit.		No. closed voluntarily.	No. in respect of which notices served to remedy defects.	No. in which defects remedied.		No. of representations with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders determined dwellings having been rendered fit.	No. in respect of which Demolition Orders made.	No. demolished in pursuance of Demolition Orders.	Total.	With State Assistance under Housing Acts of 1919 or 1923.			No. of houses in course of erection under Council's Building Scheme.			
							By owners.	By Local Authority in default of owners.			By owners.	By Local Authority in default of owners.							By Local Authority.	By other bodies or persons.					
Waterloo-with-Seaforth ...	2093	214	...	1460	1304	17	17	...	...	150	131	6	...	...	...	...	...	...	10	...	...	...			
Whithampton ...	53	53	14	27	8	...	...	...	...	31	...	...	...	1	3	...	...	10	17	...	...	...			
Wetherfield ...	95	20	...	20	84	9	9	...	...	2	2	...	1	1	...	...	...	9	...	...	...				
Widworth ...	20	...	...	...	20	...	...	...	...	...	...	...	...	...	...	...	...	9	...	...	...				
Widnes (B.) ...	800	80	1	400	371	...	...	...	...	...	...	...	1	1	1	...	...	4	...	...	...				
Widhnell ...	52	11	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...				
Worsley ...	135	78	...	127	37	34	24	...	...	56	48	...	...	...	...	...	...	41	30	...	...				
Total Urban Districts	28485	7641	328	10227	8980	2159	1673	88	8	5222	4311	594	105	102	22	5	11	42	2569	837	283	690			
RURAL—																									
Warrington-upon-Irwell ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27	...	...	...			
Warrington ...	17	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	22	...	...	...				
Warrington ...	219	37	2	40	31	...	...	...	...	44	...	...	1	1	...	...	...	1	25	...	...	...			
Warrington ...	74	60	21	39	25	19	13	...	...	25	20	...	...	...	...	...	...	14	...	5	...				
Warrington ...	251	251	6	154	140	...	...	...	...	...	...	...	2	2	1	...	...	...	70	40	30	6			
Warrington ...	260	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...				
Warrington ...	4	4	...	4	...	...	...	...	...	4	4	...	...	...	...	...	...	104	...	...	...				
Warrington ...	2	2	2	...	...	...	...	...	...	11	8	...	2	2	...	...	...	35	...	...	...				
Warrington ...	74	...	...	19	12	5	4	...	...	2	2	...	...	...	...	...	...	24	...	24	...				
Warrington ...	986	135	2	12	12	...	...	...	...	141	132	...	...	...	...	...	...	1	12	...	12	...			





TABLE I.—Continued.

DISTRICT.	UNFIT DWELLING HOUSES.					ACTION UNDER STATUTORY POWERS IN REGARD TO HOUSING.													No. of houses demolished voluntarily by owners or converted to workshops.	NEW HOUSES.			
	Total No. inspected for Housing defects.	No. inspected under Housing Regulations.	No. found unfit for habitation	No. found not reasonably fit for habitation.	No. rendered fit as result of informal action.	Under Section 28, Housing, Town Planning, &c., Act, 1919.				Under the Public Health Acts.		Proceedings under Sections 17 and 18 of Housing, Town Planning, &c., Act, 1909.								No. of new houses erected during the year.			
						No. in respect of which notices served requiring repairs.	No. rendered fit.		No. closed voluntarily.	No. in respect of which notices served to remedy defects.	No. in which defects remedied.		No. of representations with a view to making Closing Orders.	No. in respect of which Closing Orders made.	No. of Closing Orders determined dwellings having been rendered fit	No. in respect of which Demolition Orders made.	No. demolished in pursuance of Demolition Orders.	Total.		With State Assistance under Housing Acts of 1919 or 1923.		No. of houses in course of erection under Council's Building Scheme.	
							By owners.	By Local Authority in default of owners.			By owners.	By Local Authority in default of owners.								By Local Authority.	By other bodies or persons.		
... ..	174	7	2	...	...	...	...	...	...	5	5	...	...	...	...	...	...	...	1	...	...	...	
... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	...	...	...	
... ..	330	...	...	119	73	...	...	...	...	46	46	...	...	...	...	...	...	...	241	...	...	...	
... ..	75	75	24	28	13	...	...	...	...	...	...	...	...	...	...	...	...	...	18	...	...	...	
... ..	2220	...	...	10	5	...	...	...	...	...	...	...	...	...	1	...	...	...	31	...	...	...	
... ..	135	135	1	...	1	...	1	...	...	33	27	...	...	...	...	...	...	1	28	...	...	...	
Lancashire ... ..	324	324	1	179	127	2	2	...	...	...	...	...	2	2	...	2	...	3	...	...	...	...	
... ..	437	429	4	66	64	...	...	...	...	8	8	...	1	1	...	...	...	2	28	...	4	...	
... ..	110	10	1	3	2	6	3	...	...	32	26	...	...	...	...	...	...	1	25	...	...	...	
Total Rural Districts	5692	1469	66	673	513	32	23	...	...	351	278	...	8	8	2	2	...	9	714	40	75	6	
Total Admin. County	34177	9110	394	10900	9493	2191	1696	88	8	5573	4589	594	113	110	24	7	11	51	3283	877	358	696	





The following statement summarises the housing work carried out in the Administrative County, and for comparative purposes gives the 1922 figures :—

<i>Unfit dwelling-houses—</i>	1922	1923
No. of houses inspected ...	34,811 ...	34,177
No. inspected under Regulations	8,159 ...	9,110
No. found unfit for habitation...	675 ...	394
No. found not reasonably fit ...	9,404 ...	10,900
No. rendered fit as result of informal action ...	9,259 ...	9,493
<i>Action under Statutory Powers—</i>		
<i>Section 28 of Housing, Town Planning, &amp;c. Act, 1919—</i>		
No. of notices ...	1,677 ...	2,191
Rendered fit—By owners ...	1,212 ...	1,696
By L.A., in default ...	140 ...	88
No. closed voluntarily ...	3 ...	8
<i>Under Public Health Acts—</i>		
No. of notices ...	7,217 ...	5,573
Defects remedied—By owners	5,070 ...	4,589
By L.A., in default ...	671 ...	594
<i>Proceedings under Sections 17 &amp; 18 of Housing, Town Planning, &amp;c. Act, 1909—</i>		
No. of Representations with view to Closing Orders ...	94 ...	113
No. in respect of which Closing Orders made ...	90 ...	110
No. of Closing Orders determined ...	37 ...	24
No. in respect of which Demolition Orders made ...	58 ...	7
No. demolished after Closing Orders ...	48 ...	11
No. of houses demolished voluntarily by owners or converted to workshops ...	71 ...	51

**NEW HOUSES.**—The number of new houses erected in the Administrative County area during the year is stated to be as follows :—

With State assistance under the Housing Acts of 1919 or 1923—				
By Local Authorities	...	...	...	877
By other bodies or persons	...	...	...	358
Total new houses erected in 1923	...	...	...	3,283
No. of new houses in course of erection at end of year under Local Authorities' Building Schemes				
...	...	...	...	696

New houses erected in the County in the year 1922 numbered 4,954, and 3,972 in 1921.

In 1923 loans by Local Authorities amounting to £11,210 have been granted in respect of 22 houses, and subsidies of £1,325 have been paid in respect of 15 houses.

**Nuisances.**—The following totals, collated from the local health reports, show the number of nuisances abated in the year 1923 and preceding years :—

1919	...	...	...	36,957
1920	...	...	...	43,018
1921	...	...	...	49,589
1922	...	...	...	52,947
1923	...	...	...	58,461

Number of notices served :—

1919	...	...	...	24,252
1920	...	...	...	27,237
1921	...	...	...	30,867
1922	...	...	...	30,649
1923	...	...	...	33,420

**Closet Accommodation.**—The following figures, which have been taken from district health reports, show approximately



TABLE J.—Continued.

DISTRICT.	Refuse Destructor provided.	CANAL BOATS.		SLAUGHTER-HOUSES.			DAIRIES, COWSHEDS, AND MILKSHOPS.			NUISANCES.				CLOSET ACCOMMODATION.														SMOKE ABATEMENT.		MEDICAL OFFICER AND SANITARY INSPECTOR (1923).																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		No. Inspected.	No. of Infringements.	Number Registered.	Number Licensed.	Public Abattoir provided.	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1923.								Council's Contribution towards cost of Conversion.		Number of Observations.	Legal Proceedings and Result.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
										Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pail Closets.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Lunesdale .....	..	1	..	..	13	..	410	..	..	54	2	55	..	1251	1482	69	178	479	22	..	..	..	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	





ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE J.—SUMMARY OF SANITARY WORK CARRIED OUT DURING 1923.

DISTRICT.	Refuse Destructor provided.	CANAL BOATS.		SLAUGHTER-HOUSES			DAIRIES, COWSHEDS, AND MILKSHOPS.			NUISANCES.				CLOSET ACCOMMODATION.														SMOKE ABATEMENT.		MEDICAL OFFICER AND SANITARY INSPECTOR (1923). WITH (a) No claim for salary. The salaries of the officers of the Ministry of Health approved during the last year.		
		No. Inspected.	No. of Infringements.	Number Registered.	Number Licensed.	Public Abattoir provided.	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1923.								Council's Contribution towards cost of Conversion.		Number of Observations.	Legal Proceedings and Result.
										Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pail Closets.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.						
URBAN.																																
Abram.....	..	42	9	..	1	..	12	..	..	70	58	350	..	524	813	28	157	481	61	..	6	..	1	..	..	..	Half-cost	4	..	M.O. A. R. E. I. W. H.		
Accrington (B.) .....	Yes	..	..	3	..	Yes	38	74	Yes	188	32	217	1—Work done by owner.	28	28	838	5000	1416	1975	9243	..	..	..	108	..	1	Approx. do.	11	..	M.O. A. G. I. R. D.		
Adlington .....	..	..	..	1	..	..	14	2	..	29	..	29	..	336	336	5	75	635	487	30	40	..	..	..	..	..	Water free	..	..	M.O. W. C. P. I. R. E.		
Ashton-in-Makerfield ....	..	..	..	1	..	..	39	9	When required	311	166	106	..	..	..	3745	2920	617	277	25	..	..	..	1	..	..	..	..	16	..	M.O. H. W. I. D. G.	
Ashton-under-Lyne (B.) ..	..	..	..	12	1	..	2	80	Yes	176	69	511	2—With- drawn on payment of costs	..	..	..	359	3162	5999	8291	..	..	..	..	..	..	..	1—Fined £3 12s. 6d.	127	..	M.O. J. W. T. I. W. C. M.	
Aspull .....	..	..	..	2	2	..	17	6	..	275	19	191	1—Order to abate	366	676	7	38	503	500	1	20	..	..	..	..	..	Connection to sewer	25	..	M.O. L. Cooke I. J. Cooke		
Atherton .....	Yes	..	..	1	11	..	20	31	..	108	79	325	..	43	51	..	1138	2445	1542	1415	12	..	..	..	..	..	Half-cost	14	..	M.O. J. Marsh I. K. Jenson		
Audenshaw.....	..	..	..	..	2	..	10	12	..	120	..	403	..	2	3	46	227	720	1500	1418	..	..	..	..	..	..	..	3	..	M.O. W. R. J. I. H. M. D.		
Bacup (B.) .....	..	..	..	..	14	..	109	3	When required	509	63	614	..	40	58	1587	115	2025	5538	446	..	..	..	194	..	1	£4 per closet	..	..	M.O. J. P. B. I. A. E. B.		
Barrowford.....	..	..	..	5	5	..	33	24	..	61	..	108	..	31	31	20	780	190	339	828	1	..	..	..	..	..	..	..	..	..	M.O. A. E. S. I. T. C. S.	
Billinge .....	..	..	..	..	1	..	49	3	..	62	2	57	..	400	585	10	43	76	20	..	8	..	..	..	..	..	..	2	..	..	M.O. R. O. M. I. J. J. P.	
Blackrod.....	..	..	..	1	..	..	16	1	..	25	2	34	..	255	354	27	257	393	368	28	6	..	..	..	..	6	..	..	..	..	M.O. J. W. U. I. A. J.	
Brierfield.....	..	4	..	..	6	..	5	2	..	48	..	210	..	5	5	62	1422	443	618	1693	..	..	13	..	..	..	..	..	..	..	M.O. J. S. W. I. B. H.	
Carnforth .....	..	..	..	5	..	..	14	2	..	55	..	44	..	213	213	3	554	509	61	48	1	..	..	..	..	..	..	..	..	..	M.O. E. S. J. I. F. H.	
Chadderton .....	Yes	..	..	..	7	..	51	58	Yes	610	66	530	..	..	..	1594	346	1984	5300	3187	..	..	..	153	..	..	Half-cost W.W.C.'s— Whole cost	33	..	..	M.O. J. W. L. I. A. A.	
Chorley (B.) .....	Yes	..	..	..	..	Yes	32	12	Yes	1027	2	2731	..	58	61	40	15	7270	7081	987	..	..	..	..	..	2	Half-cost	12	..	..	M.O. H. E. J. I. W. H.	
Church .....	..	..	..	..	..	..	4	7	..	70	..	68	..	5	5	121	785	300	286	1497	2	..	..	15	..	..	£5 per closet	5	..	..	M.O. J. C. L. I. F. H.	
Clayton-le-Moors .....	..	..	..	3	1	..	9	2	..	165	..	276	..	239	..	18	577	103	614	1921	..	..	..	..	..	..	..	4	..	..	..	M.O. L. T. S. I. J. H. B.





TABLE J.—Continued.

DISTRICT.	Refuse Destructor provided.	CANAL BOATS.		SLAUGHTER-HOUSES			DAIRIES, COWSHEDS, AND MILKSHOPS.			NUISANCES.				CLOSET ACCOMMODATION.														SMOKE ABATEMENT.		MEDICAL OFFICER AND SANITARY (1923).		
		No. Inspected.	No. of Infringements.	Number Registered.	Number Licensed.	Public Abattoir provided.	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1923.						Council's Contribution towards cost of Conversion.	Number of Observations.	Legal Proceedings and Result.			
										Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pail Closets.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.						
Clitheroe (B.)	..	..	..	3	3	Yes	30	..	..	460	165	180	1—Dis-missed on payment of costs	5	8	722	14	1137	2900	1512	..	..	..	126	..	..	£3 per closet	..	..	M.O. W. E. I. J. B.		
Colne (B.)	Yes	..	..	5	2	Yes	82	22	Occasion-ally	337	72	331	..	2	2	327	4333	1545	1074	4515	8	13	..	7	..	8	Half-cost	103	..	M.O. W. D. I. H. B.		
Crompton	Yes	..	..	..	7	..	48	36	..	548	83	772	..	..	30	2283	39	1338	3067	267	..	..	..	106	..	106	..	69	1—Legal notice 3—Adjourned	M.O. J. V. B. I. F. T.		
Croston	..	..	..	2	2	..	30	..	..	3	..	3	..	286	286	142	132	39	52	2	..	..	..	..	..	..	..	..	..	M.O. A. D. I. T. W. N.		
Dalton-in-Furness	..	..	..	5	3	..	57	4	When required	138	143	281	..	148	231	19	809	2210	2198	49	84	..	4	..	..	2	..	..	..	..	M.O. G. H. P. I. W. E.	
Darwen (B.)	Yes	..	..	2	1	Yes	81	27	When required	1113	937	1667	..	2	2	975	12	7344	10499	2442	..	..	..	671	..	12	Half-cost of pails	99	..	M.O. J. P. I. W. E.		
Denton	..	..	..	4	6	..	23	32	When required	287	41	670	..	90	144	24	314	4434	3919	559	39	..	..	..	..	10	..	10	..	..	M.O. W. S. I. A. C. B.	
Droylsden	Yes	..	..	8	..	..	12	51	When required	316	37	711	1—With-drawn on payment of costs	21	34	16	101	3783	3010	37	25	..	..	..	..	..	..	146	..	..	M.O. F. G. P. I. F. S.	
Eccles (B.)	Yes	6	3	7	5	..	5	83	Yes	2541	729	3613	9—Fines ranging from 7s. 6d. to £2 2s.	3	3	20	2	12610	10920	219	..	..	..	..	..	7	£1 5s. per closet	85	7—Fines ranging from 10s. to £2 2s.	M.O. J. E. I. C. W. V. H. T. P. 12s. £22 1s.		
Failsworth	..	..	..	..	8	..	12	19	..	186	167	1194	..	56	82	179	106	4003	3417	190	37	..	..	317	..	..	Pails—Whole cost Privies—Half-cost	22	..	M.O. G. B. I. J. A.		
Farnworth	..	..	..	..	11	..	13	18	Yes	422	350	2849	1—Fined 10s. 1—Dismissed	462	850	32	1183	5857	3274	604	708	..	..	..	..	..	..	55	..	..	M.O. A. G. I. J. M. H. T.	
Fleetwood	..	..	..	..	..	Yes	8	36	..	99	25	632	..	3	9	31	77	3464	3594	32	..	..	..	..	..	..	..	2	..	..	M.O. J. C. I. S. P.	
Formby	..	..	..	..	1	..	22	..	..	20	15	30	..	149	149	532	347	987	677	..	..	..	..	4	..	..	..	..	..	..	M.O. G. P. I. F. C. S. J. H.	
Fulwood	..	..	..	1	..	..	32	..	When required	1	1	2	..	17	17	14	51	2338	1060	7	..	..	2	..	..	..	..	..	..	..	..	M.O. C. J. I. A. E. C.





TABLE J.—Continued.

DISTRICT.	Refuse Destructor provided.	CANAL BOATS.		SLAUGHTER-HOUSES.			DAIRIES, COWSHEDS, AND MILKSHOPS.			NUISANCES.				CLOSET ACCOMMODATION.														SMOKE ABATEMENT.		MEDICAL OFFICER AND SANITARY (1923, with (a) No claim for salary. The salaries are the amounts approved by the Ministry of Health the last date for			
		No. Inspected.	No. of Infringements.	Number Registered.	Number Licensed.	Public Abattoir provided.	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1923.						Council's Contribution towards cost of Conversion.	Number of Observations.	Legal Proceedings and Result.				
										Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pail Closets.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's to Fresh W. C's.							
Golborne .....	..	..	..	3	3	..	13	2	..	87	4	72	1—Order to abate	416	1023	8	67	431	180	18	5	..	..	..	..	..	..	..	..	..	..	M.O. D. L. 15 1. J. W. H.	
Grange-over-Sands .....	..	..	..	1	..	..	12	8	When required	12	..	12	..	12	12	3	215	565	298	..	..	..	..	..	..	..	..	..	..	..	..	M.O. G. H. P. 1. T. H.	
Great Crosby .....	..	..	..	..	..	..	16	2	When required	236	10	529	..	9	13	6	79	5144	3200	..	..	..	..	..	..	..	..	By Agreement	6	..	..	M.O. J. H. 1. J. A.	
Great Harwood .....	..	..	..	1	..	Yes	24	7	..	43	..	318	..	..	Tanks 101	66	2214	518	1172	2701	6	..	..	..	..	3	£5 per closet	5	..	..	..	M.O. J. Pat. 1. A. E.	
Haslingden (B.) .....	Yes	..	..	..	14	..	85	1	When required	240	33	226	..	2	4	1070	691	522	3238	2408	1	..	..	2	..	..	Half-cost	17	..	..	..	M.O. W. R. A. 1. R. A.	
Haydock .....	..	..	..	..	1	..	13	1	..	325	5	567	..	1381	1554	2	10	442	430	..	6	..	..	..	..	..	..	..	..	..	..	M.O. A. D. 1. J. E.	
Heysham .....	..	..	..	1	1	..	18	..	..	7	..	7	..	55	68	4	925	1075	150	19	7	..	..	..	..	..	..	..	..	..	..	M.O. R. H. 1. H. M.	
Heywood (B.) .....	Yes	23	..	11	1	..	42	8	Yes	477	7	484	..	313	1203	336	1039	1938	2559	2886	45	..	..	11	..	8	£4 per closet	120	..	..	..	M.O. W. A. 1. J. E. C.	
Hindley .....	..	..	..	5	1	..	22	3	When required	413	34	2770	..	1163	1980	763	52	1900	2574	19	69	..	..	37	..	..	Connection to sewer and water free	12	..	..	..	M.O. R. K. N. 1. T. F.	
Horwich .....	..	..	..	1	2	..	31	20	When required	221	57	451	..	39	39	71	1245	2865	1428	1225	..	..	..	6	..	4	..	16	..	..	..	M.O. J. S. S. 1. J. H. B.	
Hurst .....	..	..	..	3	3	..	5	..	When required	22	..	22	..	..	..	..	616	338	370	1819	6	..	..	..	..	..	£2 per closet	72	..	..	..	M.O. J. W. T. 1. S. Sh.	
Huyton-with-Roby .....	..	..	..	..	..	..	11	..	..	71	..	71	..	220	274	75	251	733	465	..	61	..	..	..	..	..	Half-cost	..	..	..	..	M.O. A. W. M. 1. J. A. H.	
Ince-in-Makerfield .....	..	52	1	..	..	..	8	25	..	1491	37	1528	..	989	2038	71	56	1486	1026	..	16	..	..	..	..	..	..	..	..	..	..	M.O. J. H. F. 111.	
Irlam .....	..	..	..	..	..	..	4	8	..	290	67	1088	..	33	60	90	21	3048	2595	55	55	..	1	1	..	..	Half-cost of drains and plumbing work	15	..	..	..	M.O. W. Th. 1. J. W. R.	
Kearsley .....	..	..	..	4	..	..	5	12	Yes	155	..	474	..	374	706	28	191	1612	1314	141	275	..	..	15	..	..	Half-cost	2	..	..	..	M.O. A. G. C. 1. E. Sh.	
Kirkham .....	..	..	..	3	..	..	7	2	..	53	..	39	..	121	254	13	42	641	436	28	13	..	..	4	..	..	..	7	..	..	..	M.O. C. C. 1. J. R. H.	
Lancaster (B.) .....	Yes	20	..	1	1	Yes	24	105	Yes	734	286	1583	..	25	25	67	4769	12274	2411	..	..	..	..	..	..	..	..	11	..	..	..	M.O. J. D. R. inc. Port	
Lathom and Burscough ..	..	15	..	..	3	..	5	2	..	10	14	58	..	768	1163	1	210	395	134	6	17	..	..	..	..	6	..	..	..	..	..	M.O. A. S. to C.	
																																	I. T. B.





TABLE J.—Continued.

DISTRICT.	Refuse Destructor provided.	CANAL BOATS.		SLAUGHTER-HOUSES.			DAIRIES, COWSHEDS, AND MILKSHOPS.			NUISANCES.				CLOSET ACCOMMODATION.														SMOKE ABATEMENT.		MEDICAL OFFICER AND SANITARY INSPECTOR (1923), WITH—  (a) No claim for salary.  The salaries of the officers of the Ministry of Health approved by the last Committee.			
		No. Inspected.	No. of Infringements.	Number Registered.	Number Licensed.	Public Abattoir provided.	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1923.								Council's Contribution towards cost of Conversion.		Number of Observations.	Legal Proceedings and Result.	
										Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pail Closets.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.							
Lees .....	..	..	..	1	3	..	2	9	..	14	4	13	..	..	..	799	165	367	677	89	..	..	..	36	..	..	Half-cost	..	..	M.O. J. C. B. I. J. W. L.			
Leigh (B.) .....	Yes	55	..	15	6	..	45	21	..	674	530	403	..	186	373	5	3884	8089	1800	853	22	..	..	..	..	..	Yes	54	6—Fined 20s. and 5s. costs 1—To pay costs (5s.)	M.O. J. C. B. I. E. J.			
Leyland .....	..	..	..	5	5	..	19	3	..	143	69	153	..	686	686	506	397	1030	1070	11	79	..	..	..	..	1	Pails—Whole cost Privies—Half cost	11	..	M.O. C. M. W. I. H. C.			
Litherland .....	Yes	..	..	1	..	..	8	18	When required	831	20	2167	..	2	2	..	1012	3308	2209	..	..	..	..	..	..	..	..	5	..	..	M.O. T. D. W. I. C. Y. E.		
Littleborough.....	..	..	..	7	..	..	68	1	..	40	1	299	..	..	..	1591	..	659	1996	383	..	..	..	4	..	6	..	170	..	..	M.O. J. T. R. I. H. E. V.		
Little Crosby.....	..	..	..	..	..	..	5	..	When required	..	..	..	..	65	65	5	8	160	139	..	..	..	..	..	..	..	By Agreement	..	..	..	M.O. A. J. W. I. E. B.		
Little Hulton .....	..	..	..	3	5	..	13	9	..	41	84	290	..	514	993	2	407	667	282	129	27	..	..	..	..	..	..	54	..	..	I. T. M. M.O. J. H. M.		
Little Lever .....	..	6	..	3	1	..	9	1	..	35	5	30	..	168	342	21	52	794	668	113	139	..	..	..	..	..	..	2	..	..	I. J. T. D. M.O. J. S. P.		
Longridge .....	..	..	..	3	3	..	32	3	..	38	..	38	..	13	13	32	82	497	731	400	..	..	..	..	..	..	..	..	..	..	..	I. C. Y. E. M.O. G. J. S.	
Lytham Saint Anne's (B.)	Yes	..	..	..	..	Yes	32	24	Yes	282	2	302	..	..	19	58	56	7959	5065	35	..	..	..	..	..	..	..	32	..	..	..	I. J. M. M.O. G. C. W.	
Middleton (B.) .....	Yes	6	..	7	3	..	65	24	Yes	296	17	396	..	..	..	373	1494	2400	1730	3640	..	..	..	15	..	..	Half-cost	73	4—Fined 10s. 1—Order to abate and to pay 12s. 6d. costs.	..	..	I. H. Y. M.O. S. T. B.	
Milnrow .....	..	..	..	..	6	..	74	2	..	83	3	605	..	86	90	1138	119	503	979	78	..	..	..	119	..	..	Cistern, flush-pipe, and pedestal	8	..	..	..	I. T. W.	
Morecambe (B.) .....	Yes	..	..	..	5	..	12	57	Yes	159	15	659	..	40	51	19	3460	4777	not known	27	205	..	..	1	..	3	..	..	..	..	..	..	I. H. B. M.O. J. W. W.
Mossley (B.) .....	..	..	..	4	1	..	19	2	When required	70	..	55	..	2	2	2849	689	348	374	148	..	..	..	5	..	..	..	..	..	..	..	..	I. E. S. M.O. J. H. Y.
Nelson (B.) .....	Yes	..	..	1	13	..	30	37	Yes	35	5	57	..	..	..	4	7287	2581	2843	8363	..	..	..	..	..	11	..	18	..	..	..	..	I. J. W. M.O. R. G. M.





TABLE J.—Continued.

DISTRICT.	Refuse Destructor provided.	CANAL BOATS.		SLAUGHTER-HOUSES.			DAIRIES, COWSHEDS, AND MILKSHOPS.			NUISANCES.				CLOSET ACCOMMODATION.														SMOKE ABATEMENT.		MEDICAL OFFICER AND SANITARY INSPECTOR (1923), WITH SPECIAL NOTE.	
		No Inspected.	No. of Infringements.	Number Registered.	Number Licensed.	Public Abattoir provided.	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1923.						Council's Contribution towards cost of Conversion.	Number of Observations.	Legal Proceedings and Result.		
										Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pail Closets.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.					
Newton-in-Makerfield .....	..	..	..	..	3	Yes	18	20	..	148	49	313	..	221	357	2646	..	1088	3437	28	24	..	1	17	..	..	£2—Pails £4—Privies	..	..	M.O. H. E. W. 3d.	
Norden .....	..	..	..	1	..	..	92	1	..	20	16	20	..	87	87	663	184	232	294	10	..	..	..	12	..	1	Half-cost	1	..	I. H. Asher	
Ormskirk .....	Yes	..	..	2	..	..	4	4	..	69	5	58	..	271	320	33	165	1133	719	7	33	..	..	6	..	..	Half-cost	20	..	M.O. W. H. E. 1d.	
Orrell .....	..	..	..	2	2	..	17	12	..	88	10	80	..	450	930	..	19	473	442	8	5	..	..	..	..	..	..	..	..	I. J. H. C.	
Oswaldtwistle .....	..	..	..	..	7	Yes	84	6	..	187	2	173	..	161	260	389	1208	429	966	2448	12	..	1	11	..	4	£4 10s. per closet	6	..	M.O. G. E. S. 1d.	
Padiham .....	Yes	..	..	8	..	..	13	4	..	463	20	1205	..	..	..	1399	27	605	2969	1554	..	..	..	3	..	..	..	..	..	..	I. J. Alcock
Poulton-le-Fylde .....	..	..	..	3	3	..	12	2	..	22	..	12	..	41	41	10	188	656	473	11	11	..	2	..	..	..	..	..	..	..	M.O. N. R. D. 12s. 6d.
Preesall .....	..	..	..	..	1	..	22	10	..	13	1	10	..	170	170	127	58	90	94	..	2	..	..	..	..	..	..	..	..	..	I. G. Egner
Prescot .....	..	..	..	4	4	..	3	6	..	351	12	348	..	411	657	12	224	1296	843	..	104	..	..	2	..	..	Pedestal and fittings	..	..	M.O. W. A. L. 1d.	
Prestwich .....	..	..	..	4	..	..	17	14	..	297	58	356	3—Penalty and costs £11 7s.	92	136	102	544	4972	3281	220	22	..	2	2	..	..	..	..	10	..	I. E. Prosser
Radcliffe .....	Yes	..	..	8	1	..	22	50	..	463	240	450	..	663	1251	253	876	3434	2658	1632	367	..	..	..	..	3	Half-cost	25	..	M.O. S. A. N. 1d.	
Rainford .....	..	..	..	1	..	..	21	1	..	20	6	26	..	632	632	6	8	51	14	5	..	..	..	..	..	..	..	..	..	..	I. W. H. 1d.
Ramsbottom .....	Yes	..	..	3	9	..	55	2	..	87	5	1121	..	148	302	584	880	1611	1519	1449	15	..	..	18	..	4	..	27	..	..	M.O. F. Prosser
Rawtenstall (B.) .....	..	..	..	..	27	..	245	2	..	432	..	412	..	44	44	550	590	2406	5600	3858	..	..	..	..	..	9	Half-cost	19	..	I. B. Smith	
Rishton .....	..	..	..	..	3	..	32	8	When required	211	2	208	..	3	3	30	838	286	312	1589	..	..	..	..	..	..	Each case considered	20	..	..	M.O. H. Lewis
Royton .....	Yes	..	..	..	10	..	23	10	Yes	135	27	278	..	8	8	2483	586	896	2020	946	2	..	..	37	..	..	Pedestal and cistern	3	..	..	I. G. A. 1d.
Skelmersdale .....	..	..	..	2	2	..	5	10	..	69	..	69	..	681	1078	26	..	312	99	..	11	..	..	..	..	..	Pails—Whole cost Privies—Half-cost	..	..	..	M.O. J. Barr





TABLE J.—Continued.

DISTRICT.	Refuse Destructor provided.	CANAL BOATS.		SLAUGHTER-HOUSES.			DAIRIES, COWSHEDS, AND MILKSHOPS.			NUISANCES.				CLOSET ACCOMMODATION.														SMOKE ABATEMENT.		MEDICAL OFFICER AND SANITARY INSPECTOR (1923, WITH SALARIES).			
		No. Inspected.	No. of Infringements.	Number Registered.	Number Licensed.	Public Abattoir provided.	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1923.								Council's Contribution towards cost of Conversion.		Number of Observations.	Legal Proceedings and Result.	
										Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pail Closets.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.							
Standish-with-Langtree ..	..	..	..	..	7	..	29	2	..	60	..	49	..	478	994	24	53	375	124	1	..	..	..	..	..	..	..	..	..	..	..	M.O. G. H. Ormerod I. A. Church	
Stretford .....	Yes	..	..	..	5	..	8	102	..	357	26	2786	1—Fined 40s. and costs 2—Orders to abate and costs	1	1	183	1040	15435	9520	227	..	..	..	..	..	30	£5 per W.W.C.	104	1—Order to abate and pay 20s. 6d. 1—Order to abate and pay 62s.	M.O. E. H. W. ... I. S. Massy			
Swinton and Pendlebury	Yes	..	..	..	19	..	16	48	..	914	494	4194	1—To pay costs	265	496	67	284	6459	5903	75	500	..	..	..	..	1	..	204	..	..	M.O. H. C. M. ... I. A. B. ...		
Thornton .....	..	..	..	1	..	..	50	8	..	15	4	19	..	34	34	239	104	1133	1087	21	39	..	..	..	44	..	..	..	..	..	..	M.O. F. S. P. ... I. H. F. ...	
Tottington .....	..	..	..	..	6	..	61	..	..	5	24	103	..	501	994	195	206	534	323	134	21	..	1	..	..	..	Half-cost of fittings	6	..	..	M.O. G. Bailey ... I. L. Kenyon		
Trawden .....	..	..	..	3	3	..	85	..	Yes	1	1	2	..	..	..	306	313	128	98	241	3	..	..	2	..	..	..	..	..	..	..	M.O. G. Shaw ... I. J. H. T. ...	
Turton .....	..	..	..	9	..	..	201	2	..	134	6	140	..	621	621	99	1160	1050	354	1154	50	..	..	..	..	..	Half-cost	42	..	..	..	M.O. H. R. ... I. A. M. M. ...	
Tyldesley-with-Shakerley	..	..	..	8	4	..	25	6	..	275	37	290	..	183	454	9	957	2180	730	577	8	..	..	..	..	5	Half-cost	14	..	..	..	M.O. A. J. Lowe ... I. J. S. ...	
Ulverston .....	..	..	..	8	..	..	24	5	When required	114	3	104	..	96	205	4	589	2031	1553	..	2	..	..	..	..	..	..	..	..	..	..	..	M.O. G. H. P. ... I. C. T. H. ...
Upholland .....	..	..	..	2	..	..	53	8	..	62	11	53	..	290	513	15	63	238	60	..	21	..	..	..	..	..	£6 per closet	..	..	..	..	M.O. F. H. B. ... I. A. H. ...	
Urmston .....	..	..	..	2	2	..	6	7	When required	9	111	158	..	22	32	..	43	1979	1994	74	18	..	..	..	..	2	..	..	..	..	..	..	M.O. G. E. F. ... I. J. H. ...
Walton-le-Dale .....	..	..	..	..	2	..	62	9	..	309	89	398	..	98	138	850	701	1550	1818	312	5	..	11	74	..	3	Half-cost	..	..	..	..	..	M.O. C. J. Trimble ... I. N. Baron ...
Wardle .....	..	..	..	1	1	..	51	..	..	16	30	46	..	94	188	231	..	427	366	108	7	..	..	..	..	..	Connection to sewer	..	..	..	..	..	M.O. D. G. MacG. ... I. J. D. H. ...
Waterloo-with-Seaforth ..	..	..	..	..	..	..	19	24	Yes	924	150	5113	1—With-drawn on payment of costs	..	..	10	986	10148	5136	..	..	..	..	..	..	..	..	5	..	..	..	..	M.O. V. J. G. ... I. J. H. ...
Westhoughton .....	..	..	..	..	11	..	74	2	..	48	6	68	..	988	1263	8	637	1749	792	116	285	..	..	..	..	..	Half-cost	9	..	..	..	..	M.O. W. H. L. ... I. F. J. A. G. ...
Whitefield .....	..	..	..	6	..	..	8	22	Yes	123	61	356	..	324	628	63	212	1123	661	178	45	..	..	1	..	4	..	19	1—Order to abate. Fined £2 and costs £5 5s.	..	..	..	M.O. A. J. Y. ... I. C. Whittaker
Whitworth .....	..	..	..	..	7	..	51	36	..	23	..	286	..	..	..	1354	642	413	702	200	..	..	..	18	..	..	Each case considered	7	..	..	..	..	M.O. T. J. L. F. ... I. J. J. C. ...





TABLE J.—Continued.

DISTRICT.	Refuse Destructor provided.	CANAL BOATS.		SLAUGHTER-HOUSES.			DAIRIES, COWSHEDS, AND MILKSHOPS.			NUISANCES.				CLOSET ACCOMMODATION.														SMOKE ABATEMENT.		MEDICAL OFFICERS AND SANITARIAN (1923). WIFE & CHILDREN.	
		No Inspected.	No. of Infringements.	Number Registered.	Number Licensed.	Public Abattoir provided.	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1923.							Council's Contribution towards cost of Conversion.	Number of Observations.		Legal Proceedings and Result.
										Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pail Closets.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.					
Widnes (B.) .....	Yes	..	..	..	7	..	25	40	Yes	400	29	900	..	607	607	..	51	5770	7202	1483	156	..	..	..	..	2	Half-cost	..	..	M.O. A. J. Jones, 1919-20. I. W. L. Jones, 1920-21. J. G. Marshall, 1921-22. Es. 1922, £108 7s. 10d.	
Withnell .....	..	..	..	2	2	..	22	6	..	2	..	2	..	..	..	560	360	187	221	44	2	..	..	..	..	..	..	10	..	M.O. S. W. Martin, 1919-20. Es. 1922, £108 7s. 10d.	
Worsley .....	..	77	10	..	11	..	15	10	When required	65	58	113	2—Con- victions obtained	790	1582	6	579	2041	1508	46	142	..	..	..	..	..	..	26	..	I. A. P. Jones, 1919-20. M.O. R. S. Jones, 1920-21. I. W. A. Jones, 1921-22.	
TOTAL URBAN DISTRICTS	26	306	23	235	340	11	3277	1572	39	24939	6225	55824	27	20946	33245	37079	69508	219347	192662	85843	3963	13	39	2161	44	265	..	2154	27		
RURAL.																															
Barton-upon-Irwell .....	..	..	..	..	4	..	38	9	..	225	56	297	..	340	350	200	50	1600	1350	12	76	..	..	8	..	..	..	6	..	M.O. D. W. Jones, 1919-20. I. R. G. Jones, 1920-21. M.O. W. P. Jones, 1921-22. I. H. Jones, 1922-23.	
Blackburn .....	..	..	..	..	1	..	350	..	..	113	..	137	..	63	63	1024	..	949	420	81	..	..	..	3	..	..	..	11	..	M.O. W. P. Jones, 1919-20. I. H. Jones, 1920-21.	
Burnley .....	..	..	..	..	22	..	450	3	When required	108	11	96	..	..	Tanks 748	854	2387	724	1816	2579	2	..	4	..	..	1	..	4	..	M.O. H. J. R. Jones, 1919-20. I. J. Jones, 1920-21. M.O. J. W. C. Jones, 1921-22. I. H. Jones, 1922-23.	
Bury .....	..	8	..	3	..	..	103	10	..	85	1	150	..	606	1223	176	262	629	332	100	3	..	5	5	..	..	..	10	..	M.O. J. W. C. Jones, 1919-20. I. H. Jones, 1920-21. M.O. J. A. Jones, 1921-22. I. H. F. Jones, 1922-23.	
Chorley .....	..	..	..	7	1	..	631	2	..	352	31	343	..	2990	3452	391	25	540	680	35	..	..	32	8	..	..	..	..	..	M.O. J. A. Jones, 1919-20. I. H. F. Jones, 1920-21. M.O. J. M. Jones, 1921-22. I. W. H. Jones, 1922-23.	
Clitheroe .....	..	..	..	9	..	..	162	51	..	76	..	48	..	624	624	267	Not known	432	Not known	320	..	..	2	7	..	..	..	..	..	M.O. J. M. Jones, 1919-20. I. W. H. Jones, 1920-21. M.O. C. Jones, 1921-22. I. J. Jones, 1922-23.	
Fylde .....	..	..	..	10	..	..	283	11	..	77	4	77	4—Con- victions obtained	1490	1796	168	580	943	804	16	10	..	..	..	..	..	..	..	..	M.O. C. Jones, 1919-20. I. J. Jones, 1920-21.	
Garstang .....	..	24	..	8	2	..	157	1	..	42	..	27	..	445	445	897	560	428	564	..	12	..	7	6	..	..	..	..	..	M.O. W. L. Jones, 1919-20. I. J. Jones, 1920-21. M.O. W. Jones, 1921-22. I. J. Jones, 1922-23.	
Lancaster .....	..	18	1	1	2	..	122	4	..	177	22	202	..	544	1004	267	421	930	173	16	3	..	4	1	..	..	..	..	..	M.O. W. Jones, 1919-20. I. J. Jones, 1920-21. M.O. S. H. Jones, 1921-22. I. J. Jones, 1922-23.	
Leigh .....	..	21	..	..	3	..	72	3	..	124	31	177	..	918	1685	75	63	558	312	..	2	..	..	..	..	..	..	..	..	M.O. S. H. Jones, 1919-20. I. J. Jones, 1920-21. M.O. G. E. Jones, 1921-22. I. R. Jones, 1922-23.	
Limehurst .....	..	..	..	5	..	..	95	3	..	35	27	62	..	114	258	439	347	167	88	570	18	..	6	7	..	..	..	..	..	M.O. G. E. Jones, 1919-20. I. R. Jones, 1920-21. M.O. R. Jones, 1921-22. I. J. Jones, 1922-23.	

the number of each type of closet accommodation in the County area :—

	Urban Districts.		Rural Districts.		County.
Privy middens ...	20,946	...	20,086	...	41,032
Privy closets ...	33,245	...	25,631	...	58,876
Pail closets ...	37,079	...	8,793	...	45,872
Water closets ...	219,347	...	13,215	...	232,562
Waste-water closets	85,843	...	4,215	...	90,058
Ashpits (excluding middens) ...	69,508	...	8,199	...	77,707
Portable receptacles	192,662	...	10,573*	...	203,235

Conversions of privy closets and pail closets during 1923 and the four preceding years are shown below :—

	1919.	1920.	1921.	1922.	1923.
Privies converted to water closets ...	518	1585	2309	3256	4181
Privies converted to pail closets ...	57	160	174	232	144
Pail closets converted to water closets ...	194	588	522	1237	2269

Table "J," here inserted, shows the position of each sanitary district as regards type, &c., of closet accommodation provided.

**Canal Boats.**—In 20 districts 425 canal boats were inspected, and 24 infringements of the Acts or Regulations were noted.

**Slaughter-houses—Public Abattoirs.**—According to the local returns, there are 712 slaughter-houses in the County—registered 290, licensed 422. Public abattoirs have been provided in 11 districts; these are shown in Table "J." In the reports of Ashton-under-Lyne (B.), Haslingden (B.), Littleborough, Middleton (B.), Morecambe (B.), Nelson (B.), and Withnell, the local Medical Officers of Health recommend the provision of public abattoirs.

**Food Inspection.** — **UN SOUND FOOD.**—The following summary shows approximately the amount of unsound or diseased food seized and destroyed in the County area during the year 1923 :—

On account of tuberculosis—454 carcasses, or parts of carcasses. Tuberculous meat (in addition to the above), 12,110 lbs.

For other reasons—22 carcasses of cows, 6 calves, 15 sheep, 28 pigs, 202 rabbits, 2 turkeys, 9,089 lbs. beef, 707 lbs. mutton, 227 lbs. pork, 660 lbs. liver, 2,277 lbs. offal, 23,309 lbs. fish, 5,228 lbs. fruit, 1,563 lbs. vegetables, 884 lbs. tripe, 46 lbs. sausage, 9,649 lbs. miscellaneous foods, 463 tins, baskets or crates of fish, fruit and vegetables.

In nine instances legal proceedings were instituted, and penalties were inflicted in all cases.

At Lytham Saint Anne's a Ministry of Health inquiry was conducted in respect of the state of the mussel beds, and in October, 1923, the beds were closed. The Medical Officer of Health of Fleetwood draws attention to the possibility of pollution of the mussel beds in the estuary by sewage discharged into the river from neighbouring districts.

**BACTERIOLOGICAL EXAMINATION OF MILK.**—From 25 districts 390 samples of milk were submitted for bacteriological examination; in 32 instances tubercle bacilli were found.

**BAKEHOUSES.**—According to the local returns, the number of bakehouses in the County area is 2,343.

**Dairies, Cowsheds, and Milkshops.**—The number of cowkeepers, dairymen and purveyors of milk in each sanitary

district in the County area is given in Table "J," inserted opposite page 73.

The approximate totals for the County are :—

Number of cowkeepers	...	...	...	...	7,176
„ dairymen or purveyors of milk, other than cowkeepers	...	...	...	...	1,698

Regulations under the Dairies, Cowsheds, and Milkshops Order, 1885, are now operative in every County district, the Urban District of Little Crosby having adopted Regulations in April, 1924.

Arrangements are stated to exist in 44 County districts for the inspection of dairy herds by veterinary surgeons.

THE MILK (SPECIAL DESIGNATIONS) ORDER, 1923.—This Order, operative from the 1st July, 1923, amended in certain details the 1922 Order, which came into force on the 1st January, 1923. It prescribes the terms and conditions subject to which licences may be granted for the sale of (a) "Certified," (b) "Grade A (Tuberculin Tested)," (c) "Grade A," and (d) "Pasteurised" milk.

These licences are issued as follows :—

- (1) By the Ministry of Health to producers of "Certified" and "Grade A (Tuberculin Tested)" milk, who will be entitled to sell the milk produced under such licences under those designations, and also as "Grade A" milk without further licence from the Local Authority.
- (2) By County and County Borough Councils to producers and distributors of "Grade A" milk, and
- (3) By Sanitary Authorities to—
  - (a) Distributors of "Certified" milk ;
  - (b) Distributors of "Grade A" milk, including "Grade A (Tuberculin Tested)" and "Grade A (Pasteurised)" milk.



Only two formal applications for licences to produce and distribute "Grade A" milk have been received by the County Council, and these were granted after certain alterations and improvements had been effected at the farm premises. The Ministry of Health have notified the County Council that a licence to produce "Certified" milk has been issued in respect of one farm situate in a County district.

**Lodging-houses.**—Registered lodging-houses in the County area numbered 109.

**Smoke Observations.**—The number of smoke observations taken by local sanitary officials were as under :—

Year 1919	...	1,039	Year 1921	...	1,556
,, 1920	...	1,448	,, 1922	...	1,983
		<b>Year 1923</b>	...	<b>2,185</b>	

In the year 1923 legal proceedings (27 cases) were taken by seven authorities.

The time limit allowed by local authorities for the emission of black smoke varies from  $2\frac{1}{2}$  to 12 minutes per hour.

**Scavenging and Refuse Removal.**—According to information supplied in the local health reports, scavenging, refuse removal and public cleansing are undertaken as follow :—

By Local Authorities in 97 districts.

By Authority and contract, or by contract only, in 13 districts.

By Authority, by contract, and/or by owners or occupiers in 11 districts.

In about 80 County districts the contents of privy middens are still removed in the daytime.

Motor vehicles are used in the removal of refuse in 58 districts.



**REFUSE DESTRUCTORS.**—Destructors have been provided by the Local Authority in 26 districts; these districts are shown on Table "J," page 73.

**House Drainage, Sewerage, and Sewage Disposal.**—In this County a very considerable area comes under the jurisdiction of the Mersey and Irwell and the Ribble Watershed Joint Committees as regards the method of sewage treatment and disposal.

Each district report gives briefly the character of the sewage disposal works and the method of treatment, and also refers to any development which has taken place during the year.

Many additional areas have been sewered and other general improvements effected, but the following townships or areas are still reported as being without efficient drainage systems :—

Urban Districts.	Area Without Proper Drainage System.
Accrington (B.)	... Higher Baxenden.
Audenshaw	... Stelfox Lane and Hanover Street South.
Brierfield ...	... Marsden Heights.
Chadderton	... About 600 acres in the outlying districts.
Chorley (B.)	... Tinkler's Barracks, Red Bank, Plymouth Bridge and Birkaere.
Croston ...	... Drinkhouse Lane and Grape Lane.
Fleetwood ...	... Dock Estate.
Formby ...	... Freshfield (new sewers approaching this district).
Great Harwood	... Lidgett, Blackleach, and Cock Bridge.
Haydock ...	... Vicarage Road and West End Road, containing 27 and 40 houses respectively.
Heywood (B.)	... Birch, 'Top o'th' Wood, and parts of Manchester and Middleton Roads.
Hindley ...	... Platt Bridge.

Urban Districts.		Area Without Proper Drainage System.
Huyton-with-Roby		Part Dinas Lane, Broadgreen Road, and Stoekbridge Lane.
Leyland	...	Small portions of eastern and western areas.
Little Hulton	...	Several areas in different parts of district.
Little Lever	...	Dove Bank and Leadbeater Fold.
Middleton (B.)	...	Bowlee, Birch, and Rhodes Green.
Milnrow	...	Burnedge district.
Newton-in-Maker-		
field	...	Vulean Village and Vitriol Square.
Norden	...	Red Lumb, Lanehead, and Prickshaw.
Oswaltdwistle	...	Knuzden, Cross Edge, and Duekworth Hall.
Preesall	...	Comprehensive scheme for sewerage district sanctioned by Ministry. Work now in hand.
Prestwich	...	Simister Lane district.
Rishton	...	Tottleworth Hamlet and Railway Station area.
Royton	...	Thorp and Oldham Edge.
Swinton and	...	Forty houses at Langley Road,
Pendlebury		Pendlebury.
Tottington	...	Greenmount and Hawkshaw (sewers to be laid in 1924).
Upholland	...	Roby Mill and Pimbo Lane
Widnes (B.)	...	Halebank and rural portion in north of Borough.
Withnell	...	Chorley Road and Ollerton Cottages.

Rural Districts.		Area Without Proper Drainage System.
Barton-upon-Irwell.		Portions of Dayyholme, Flixton, and Clifton.

Burnley	...	Cliviger, Higham, and Old Laund Booth
Bury	...	About one-third of more populous area
Chorley	...	Thirteen townships, and parts of other

Rural Districts.	Areas Without Proper Drainage System.
Clitheroe ...	... Aighton, Chaigley, Little Bowland, Mitton, Leagram, and Pendleton.
Fylde ...	... Treales, Wharles, and part of Warton.
Garstang ...	... Several areas.
Laneaster ...	... Silverdale, Priest Hutton, Overton, Yealand Conyers, and Yealand Redmayne.
Limehurst ...	... Alt, Hartshead, Little Moss, and Woodhouses.
Lunesdale ...	... Over Kellet.
Preston ...	... Longton, Penwortham, Little Hoole, &c.
Sefton ...	... Certain areas all over district.
Ulverston ...	... Lindale-in-Cartmel, Cartmel, Coniston, and Allithwaite.
Warrington	... Poulton-with-Fearnhead and Winwick-with-Hulme.
West Lancashire	... All townships, except Aughton and small part of Biekerstaffe.
Whiston ...	... Cronton, Tarboek, Speke, most of Kirkby, and parts of others.
Wigan ...	... Wrightington, Shevington, Parbold, Dalton, Worthington, and part of Haigh.

**Water Supplies.**—The Administrative County area, especially the populous portion, is, on the whole, well provided with a plentiful and pure water supply, but, as previously reported, there are a number of areas—rural parishes or outlying portions of urban districts—where the water resources are insufficient and unsatisfactory.

Gradual improvements are being effected, and mention may be made of the following districts where developments have taken place in the year under report—Chorley (R.), Bretherton; Lunesdale (R.), Ireby; Preston (R.); Warrington (R.), Sankey; West Lancashire (R.), Tarleton; Whiston (R.), Whiston; and Wigan (R.), Wrightington.

In the following instances, the district health reports indicate insufficient or unsatisfactory supplies :—

- Fylde (R.) ... Treales and Wharles.
- Garstang (R.) ... Pilling, Winmarleigh, Forton, and parts of nine other townships.
- Lancaster (R.) ... Parishes of Cockerham, Thurnham, and Silverdale.
- Ulverston (R.) ... Leece, Haverthwaite, and Backbarrow in dry weather.
- Warrington (R.) Part of Cuerdley, Rixton, and Burtonwood.
- Whiston (R.) ... Kirkby and Halewood.
- Wigan (R.) ... Part of Dalton and upper portion of Wrightington.

**Shops Acts, 1912-1921.**—During the year 1923 seven applications were received by the County Council for Orders under the Shops Acts. After the statutory investigations, the following action was taken :—One general Closing Order made : one Weekly Half-holiday Order acceded to, but application subsequently withdrawn ; one application for revocation of a Weekly Half-holiday Order not granted ; and four applications for general Closing Orders from adjoining districts deferred until receipt of complete petitions.

For offences against the Shops Acts, or Orders made thereunder, legal proceedings were instituted during the year in 32 instances. In 28 cases fines varying from 2s. 6d. to 50s. were inflicted, one case ordered to pay costs, 2 cases were dismissed, each defendant being given the benefit of the doubt, and in 1 case the proceedings were pending at the close of the year. A few minor offences were met by letters of caution.

By the Expiring Laws Continuance Act, 1922, the Shops (Early Closing) Act, 1920, was continued in force until the 31st December, 1923, and by an Act of 1923, until the end of the year 1924.

**Midwives Acts, 1902 and 1918.**—The County Council is the "Local Supervising Authority" responsible for the administration of the Midwives Acts in the Administrative County area.

The number of certified midwives on the County Register on the 31st December, 1923, was 680.

During the year under report, 83 newly certified midwives gave notice of their intention to practise, and 21 who had previously "ceased" recommenced to act. The names of 91 midwives were removed from the Register, viz., deaths 11, left County area 34, ceased to practise 45, and 1 midwife voluntarily surrendered her certificate after a charge of negligence had been preferred against her.

The tabular statement below shows the qualifications of the women on the County Register :—

Obstetrical Society of London	...	...	26
Coombe Lying-in Hospital and Guinness' Dispensary, Dublin	...	...	1
Rotunda Hospital, Dublin	...	...	1
Liverpool Ladies' Charity and Lying-in Hospital	...	...	15
St. Mary's Hospitals, Manchester	...	...	19
Cork Lying-in Hospital, Cork	...	...	1
Certificate (by examination) of Central Midwives Board	...	...	439
In <i>bonâ-fide</i> practice, July, 1901	...	...	178
			<hr/> 680 <hr/>

In the year 1905, there were 876 "*bonâ-fide*" or untrained midwives on the County Register, or 83 per cent. of the total, but these have now been reduced to 178, or 26 per cent. The proportion of midwives practising in the County area qualified by training and examination rose, therefore, from 17 per cent. in the first year the Midwives Act was operative, to 74 per cent. at the end of 1923.

**RECORDS FROM MIDWIVES.**—The following statement shows the number of records received at the County Public Health Department from certified midwives during 1923 :—



## MEDICAL HELP RECORDS.

(1) Cases in which a woman during pregnancy, labour, or lying-in, appears to be dying or is dead	—
(2) Pregnancy—	
Deformity or stunted growth	—
Loss of blood	65
Abortion or threatened abortion	126
Excessive sickness	6
Puffiness of hands or face	8
Fits or convulsions	1
Dangerous varicose veins	7
Purulent discharge	8
Sores of the genitals	—
Other abnormalities or complications	20
(3) Labour—	
Fits or convulsions	12
A purulent discharge	2
Sores of the genitals	—
A malpresentation	274
Presentation other than uncomplicated head or breech	
Where no presentation can be made out	17
Where there is excessive bleeding	73
Where two hours after the birth of the child the placenta has not been completely expelled	126
In cases of serious rupture of the perinaeum or of other injuries of the soft parts	882
Other complications, including obstructed labour, uterine inertia, or requiring instrumental assistance	1362
(4) Lying-in—	
Fits or convulsions	—
Abdominal swelling and tenderness	—
Offensive lochia, if persistent	1
Rigor with raised temperature	12
Rise of temperature above 100·4° F. with quickening of the pulse for more than 24 hours	88
Unusual swelling of the breasts with local tenderness or pain	1
Secondary post-partum hæmorrhage...	2
White leg	1
Unsatisfactory progress or complications	80
(5) The Child—	
Injuries received during birth	1
Any malformation or deformity endangering the child's life...	14
Dangerous feebleness	243
Inflammation of, or discharge from, the eyes, however slight	273
Serious skin eruptions, especially those marked by the formation of watery blisters	11
Inflammation about, or hæmorrhage from, the navel	7
Other complications	203
Total	3926



aid sought, and in 1907 the percentage was only 4. During 1923 the *trained* midwives on the County Register called in medical assistance in 24·6 per cent. of their cases, compared with a percentage of 19·0 in the cases attended by *untrained* midwives.

**STILL-BIRTHS.**—There was a further decline in the number of still-births reported as occurring in the practice of the County certified midwives, viz., 359, as compared with 401, 443, and 479 in the three preceding years. The percentage of still-births “reported” to *total* births attended by midwives was 2·16, as compared with 2·35 per cent. in the year 1922, and 2·26 per cent. in 1921.

The following statement compares 1923 with preceding years, giving the percentage of still-births reported by midwives practising in the County area to the total births attended by them:—

Year.	No. of Births attended by Certified Midwives practising in County area.	No. of Still-births reported by Certified Midwives.	Percentage of Still-births reported by Midwives to total births attended by them.
1915	20,941	392	1·87
1916	17,069	397	2·32
1917	15,592	361	2·31
1918	14,966	305	2·03
1919	16,240	381	2·34
1920	21,843	479	2·19
1921	19,566	443	2·26
1922	17,046	401	2·35
1923	16,557	359	2·16

NUMBER OF CONFINEMENTS ATTENDED BY MIDWIVES.—  
The following table shows the number of births attended by midwives in the County area during the year 1923 and previous years. Midwives on the County Register as “practising” but who did not actually attend any cases are excluded, and the figures in this table also exclude the births attended by midwives residing in County Boroughs who take only occasional cases in the County area\* :—

Year.	Total Births in County area.	*No. of Births attended by practising Midwives (excluding County Boro. Midwives).	Percentage of Births attended by Midwives to total Births.	No. of “Medical Help” Records received.
1915	34,595	19,981	57.7	2,391
1916	32,695	16,530	50.5	2,502
1917	28,420	14,928	52.5	2,271
1918	27,736	14,333	51.6	2,078
1919	28,799	15,584	54.1	2,779
1920	39,767	20,761	52.2	4,249
1921	36,558	18,730	51.2	4,015
1922	32,011	16,234	50.7	3,817
1923	30,672	15,763	51.3	3,926

In the year 1923, 16 midwives attended over 100 cases.

41	„	between 75 & 100 „
58	„	„ 50 & 75 „
115	„	„ 25 & 50 „
214	„	„ 5 & 25 „
125	„	less than 5 cases.

**PUERPERAL FEVER.**—By the kind co-operation of District Medical Officers of Health, early information is received of notifications of puerperal fever reported by local practitioners under the Infectious Disease (Notification) Act, in cases where a midwife was, or had been, in attendance.

During the year under report 77 cases of puerperal fever were thus notified, the lowest number since the year 1919, and the case mortality—22 per cent.—was the lowest on record. The attack rate per 1,000 registered births was less than in any year since 1918.

The table below contrasts 1923 with the preceding nine years :—

	Puerperal Fever		Deaths.		Case	Attack Rate	
	Cases.				Mortality.	per 1,000 births.	
					per cent.		
1914.....	145	...	53	...	36·3	...	3·76
1915.....	93	...	31	...	33·3	...	2·68
1916.....	94	...	*26	...	27·3	...	2·87
1917.....	59	...	17	...	28·8	...	2·07
1918.....	49	...	†22	...	44·0	...	1·80
1919.....	75	...	‡33	...	42·8	...	2·60
1920.....	135	...	§51	...	37·2	...	3·39
1921.....	109	...	§33	...	29·7	...	2·98
1922.....	102	...	33	...	31·1	...	3·18
1923.....	77	...	17	...	22·0	...	2·51

\* Includes death of a case notified in previous year.

† Includes death of a case not notified.

‡ Includes 2 deaths of cases notified in previous year.

§ Includes 2 deaths of cases not notified.

|| Includes 2 deaths of cases notified in previous year, and 2 deaths of cases not notified.

Accurate information as to the incidence of puerperal septicaemia is difficult to ascertain, and possibly a truer index of the incidence would be deduced from the number of deaths classified by the Registrar-General under the term "puerperal sepsis," which in 1923 aggregated 42, as contrasted with the



17 fatalities above given as occurring amongst the 77 "notified" cases. This discrepancy is due to the fact that the Registrar-General in his statistics assigns to the term "puerperal sepsis" certain forms of disease of the puerperal state which are not usually reported by medical practitioners under the Notification Act.

In the following statement, the notified cases of puerperal fever are classified, distinguishing those in which midwives were concerned :—

	1922.			1923.		
	Cases.	Deaths.	Mortality rate per cent.	Cases.	Deaths.	Mortality rate per cent.
Cases attended at child-birth solely by certified midwives .....	37	.. †14	.. 35·8	33	.. 8	.. 24·2
Cases in which midwives acted as nurses under the supervision of medical practitioners .....	35	.. 10	.. 28·5	28	.. 7	.. 25·0
Cases in which certified midwives were not in attendance .....	30	.. *9	.. 28·1	16	.. 2	.. 12·5

\* Includes 2 deaths of cases not notified.

† Includes 2 deaths of cases notified in previous year.

All cases in which certified midwives were concerned were investigated and the facts recorded. In addition, enquiries were made into 100 cases of rise of temperature or rigor.

CHARGES OF NEGLIGENCE, MISCONDUCT, &c.—The disciplinary action taken during 1923 is shown in the following table. The number of charges against midwives was 50, as compared with 39 in the preceding year, and 55 in 1921. In addition, a number of minor breaches of the Rules were suitably dealt with.

	Total No. of charges.	Result of action taken.					
		Struck off the Roll.	Sur- rendered Certifi- cate and name removed from Roll.	Ap- peared before Mid- wives Act Com- mittee and severely censured	Severely cen- sured by letter.	Cau- tioned by letter.	Cen- sured by Central Mid- wives Board.
Puerperal fever cases	8	...	...	1	...	7	...
Ophthalmia neo- natorum cases	30	...	...	...	2	28	...
Other offences ...	12	...	...	...	1	11	...

OPHTHALMIA NEONATORUM.—By notifications under the Public Health (Ophthalmia Neonatorum) Regulations and by medical help records received from certified midwives, 372 cases of inflammation of, or discharge from, the eyes came under notice, and of these 208 were “notified” as ophthalmia neonatorum. In the previous year these figures were 381 and 237 respectively. Of the 208 ophthalmia neonatorum cases in 1923, 57 were doctors’ cases, that is, no certified midwife was in attendance, or, if present, only in the capacity of nurse.

The investigations into the ophthalmia cases showed that in 1923, in 30 instances, the certified midwives in attendance were at fault, mainly for failing to call in a medical practitioner, or delay in so doing. The following statement shows the nature of the offences in 1923, compared with 1920, 1921, and 1922 :—

Year.	NATURE OF NEGLIGENCE CHARGES.						
	Total.	Failure to call in a Doctor.	Delay in calling in a Doctor.	Failure to forward copy record to L.S.A.	Delay in forwarding copy record to L.S.A.	Failure to use prescribed form.	Improper treatment.
1920....	53	15	25	7	..	6	..
1921....	39	15	11	8	2	3	..
1922....	28	5	7	9	1	6	..
<b>1923....</b>	<b>30</b>	<b>7</b>	<b>20</b>	<b>2</b>	..	..	<b>1</b>

INSPECTION OF MIDWIVES.—Routine inspections are undertaken by the County Inspector of Midwives, and, when necessary, special investigations are carried out by the Assistant County Medical Officers of Health. As already stated, visits of enquiry are made regarding cases of puerperal septicæmia and ophthalmia neonatorum, and full enquiries are made into charges of negligence or misconduct on the part of certified midwives.

PAYMENT OF DOCTORS' FEES.—EMERGENCY CASES.—Under the Midwives Act, 1918, the total number of accounts received from medical practitioners up to the 31st December, 1923, in respect of cases in which the latter were summoned by midwives in "cases of emergency" was 1,734, the total amount involved being £2,781 17s. 6d. In the year 1923, the number of accounts sent in by doctors was 684, whilst the total number of copy medical help records received from midwives was 3,926. By the operation of the "scale of family income" adopted by the County Public Health Department, £2,129 17s. 1d. had to be borne by the County Council; of the remaining £652 0s. 5d., a sum of £539 9s. 11d., or 82 per cent., has, up to the present time (August, 1924), been recovered.

**TRAINING AS MIDWIVES.**—The County Education Committee, acting in co-operation with the Public Health Department, offer annually four Scholarships in order to enable women to train as midwives at recognised Institutions, and, in addition, the County Midwives Act Committee from time to time render financial assistance to suitable persons to obtain an efficient training.

**ASSISTANCE TO DISTRICT NURSING ASSOCIATIONS.**—A sum of £154 was allocated during the year 1923 to District Nursing Associations on account of the midwifery and maternity nursing work carried out by them, £94 being the amount of the "grant" made by the Ministry of Health, the balance being supplied from the County Funds.

**The Blind Persons Act, 1920.**—This Act empowers County Councils and County Borough Councils to make arrangements for promoting the welfare of the blind persons resident in their area, and such Councils may for this purpose provide and maintain or contribute towards the provision and maintenance of Societies and Workshops for the Blind.

The Lancashire County Council have imposed the administration of the Act upon the Public Health and Housing Committee, which has entrusted the duty of preparing and carrying out the scheme to its Maternity and Child Welfare Sub-Committee.

The expenses incurred by the County Council, under the Blind Persons Act, are defrayed out of the County Fund as expenses for general purposes.

As a result of a census which has been taken, it has been found that there are 1,451 blind persons in the Administrative County area.

To put the scheme into operation it was decided to divide the County into what is termed "Workshop areas"

and work through existing Blind Institutions and Workshops and other Voluntary Agencies.

Arrangements have been made with 18 Workshops and Societies for the Blind for the supervision of the blind persons in their respective areas.

The Lancashire County Council pay grants to the Voluntary Agencies at the rate of £20 per annum per workshop worker on the basis of units of average attendance ; £20 per annum per home worker on the basis of average weekly earnings ; £78 per annum per home teacher employed wholly in visiting blind persons in the Administrative County Area.

In addition to the above-mentioned grants, an annual contribution is made to each Workshop or Society for non-specific services, for example, for the help which they give to the non-employable blind and for their general expenses.

The Blind Persons Act does not relieve Boards of Guardians of any of their responsibilities under the Poor Law Acts.

In addition to the ordinary Voluntary Agencies, the Lancashire County Council also make a contribution to the northern branch of the National Library for the Blind. Their copyists are treated as home workers, who, subject to the usual regulations of the Ministry of Health for home workers, are eligible for the Lancashire County Council grant of £20 per annum per worker.

The Blind Persons Act does not interfere with the duties of Education Authorities under the Elementary Education (Blind and Deaf Children) Act, 1893, but both Acts are administered by the same Department of the County Council, and, in addition, the same Department is responsible for the higher education and training of the blind.



This arrangement has been found very advantageous in many ways, as one Department has the administrative supervision of every class of the blind who can be dealt with by the County Council.

**Sale of Food and Drugs Acts, 1875—1907.**—The County Analyst (Mr. Collingwood Williams, B.Sc., F.I.C.), in his report for the year 1923 to the Public Health and Housing Committee, states that 4,948 samples were submitted for analysis, of which 4,640 were from the County Police, 306 from Inspectors of Local Authorities, and two from other persons.

Of the samples submitted by the Police, 365 were adulterated or not up to standard, being 7·87 per cent. of the number taken, as compared with 8·0 per cent. in 1922. Of the samples submitted by Inspectors of Local Authorities, 28 were adulterated or not up to standard, being 9·15 per cent. of the number taken. As usual, the majority of the above cases were only of a slight character, the percentage of serious cases being only 2·77 per cent., as compared with 2·59 per cent. in 1922. This increase is more apparent than real, as when allowance is made for the duplication of offences in milk samples taken formally and informally, the figure is 2·53 per cent.—practically the same as last year, which was the best on record.

Table K, here inserted, gives details of the articles purchased for analysis in each Police Division and the number adulterated.

**MILK.**—Three thousand and forty-nine samples (61·6 per cent. of the number taken) were purchased as milk or skimmed milk.

The number of adulterated, deficient, or dirty samples was 338, or 11·08 per cent., as compared with 9·48 per cent. in 1922 ; but only 120, or 3·93 per cent., were serious cases.

SALE OF FOOD AND DRUGS ACTS.

TABLE K. SAMPLES TAKEN IN THE ADMINISTRATIVE COUNTY DURING 1923.

DIVISION.	MILK.			*OTHER ARTICLES OF FOOD.			DRUGS.			TOTALS.			PERCENTAGE OF ADULTERATED SAMPLES.		TOTAL.	DIVISION.
	Samples.	Adulterated.		Samples.	Adulterated.		Samples.	Adulterated.		Samples.	Adulterated.		Serious Cases.	Slight Cases.		
		Serious Cases.	Slight Cases.		Serious Cases.	Slight Cases.		Serious Cases.	Slight Cases.		Serious Cases.	Slight Cases.				
Lonsdale North ...	41	2	4	74	1	1	...	...	...	115	3	5	2.6	4.3	6.9	N.L.D.
Lonsdale South ...	97	11	13	18	...	...	...	...	...	115	11	13	9.6	11.3	20.9	S.L.D.
Garstang .....	46	6	4	61	...	...	2	...	...	109	6	4	5.5	3.7	9.2	G.D.
Kirkham .....	81	7	9	105	...	4	2	...	...	188	7	13	3.7	6.9	10.6	Km.D.
Blackburn Lower...	105	2	6	93	...	2	3	...	...	201	2	8	1.0	4.0	5.0	L.B.D.
Blackburn Higher	213	3	9	111	1	1	7	...	...	331	4	10	1.2	3.0	4.2	H.B.D.
Church .....	95	3	7	70	...	1	3	...	...	168	3	8	1.8	4.7	6.5	C.D.
Rossendale .....	147	3	4	...	...	...	...	...	...	147	3	4	2.0	2.7	4.7	Rs.D.
Leyland .....	179	5	7	105	...	4	4	...	...	288	5	11	1.7	3.8	5.5	L.D.
Bolton .....	129	1	8	157	1	4	8	...	...	294	2	12	0.7	4.1	4.8	Bn.D.
Bury .....	105	8	8	101	3	...	13	...	4	219	11	12	5.0	5.5	10.5	By.D.
Rochdale .....	304	17	20	87	...	3	...	...	...	391	17	23	4.3	5.9	10.2	R.D.
Ashton-under-Lyne	152	5	9	60	...	...	8	...	...	220	5	9	2.3	4.1	6.4	A.D.
Manchester .....	274	14	16	298	3	2	...	...	...	572	17	18	3.0	3.1	6.1	M.D.
Salford .....	177	9	25	32	...	...	...	...	...	209	9	25	4.3	12.0	16.3	S.D.
Ormskirk .....	122	2	9	12	...	...	...	...	...	134	2	9	1.5	6.7	8.2	O.D.
Prescot .....	59	1	1	38	...	...	...	...	...	97	1	1	1.0	1.0	2.0	P.D.
Widnes .....	85	6	7	52	4	4	...	...	...	137	10	11	7.3	8.0	15.3	Ws.D.
Warrington .....	202	6	18	148	2	2	...	...	...	350	8	20	2.3	5.7	8.0	W.D.
Wigan .....	177	3	13	177	2	5	1	...	...	355	5	18	1.4	5.1	6.5	Wgn.D.
County Police .....	2790	114	197	1799	17	33	51	...	4	4640	131	234	2.82	5.05	7.87	Police
Local Authorities...	257	6	21	49	...	1	...	...	...	306	6	22	1.96	7.19	9.15	L.A.
Private Purchasers	2	...	...	...	...	...	...	...	...	2	...	...	...	...	...	P.P.
Totals.....	3049	120	218	1848*	17	34	51	...	4	4948	137	256	...	...	...	
Percentage of Adulterated Samples...	...	3.93%	7.15%	...	0.92%	1.84%	...	...	7.84%	...	2.77%	5.17%	...	...	...	

The 306 samples taken by Local Authorities include :—Boroughs—Chorley 1, Darwen 28, Lytham Saint Anne's 87, Middleton 102 ; Urban District Councils—Horwich 11, Stretford 28, Swinton and Pendlebury 8, and Westhoughton 41.

\* The 1,848 miscellaneous articles analysed comprised Arrowroot 50, Baking Powder 90, Bicarbonate of Soda 39, Butter 165, Cake Flour 12, Cheese 99, Cocoa 70, Coffee 196, Cornflour 21, Cream of Tartar 61, Custard Powder 16, Egg Powder 17, Ginger 128, Ground Rice 18, Jam 18, Lard 168, Lemon Cheese 12, Margarine 157, Mustard 55, Pepper 188, Rice 29, Sago 13, Self-Raising Flour 12, Spice 10, Tapioca 27, Tea 30, Vinegar 10, Yeast 10, Tinned and Potted Foods 30, various other Articles 97.



# SALE OF FOOD AND DRUGS ACTS.

TABLE L.—PROSECUTIONS ARISING OUT OF SAMPLES PURCHASED  
DURING THE YEAR 1923.

DIVISION.	Samples reported as Offences.	Number of Prosecutions.	Number Convicted or Ordered to Pay Costs.	Number Withdrawn.	Number Dismissed.	Fines and Costs.
						£ s. d.
Edale North .....	0	0	...	...	...	...
Edale South .....	2	1	...	...	1	...
Lang .....	2	2	...	...	2	...
Ham .....	2	2	...	...	2	...
Ekburn Lower .....	2	2	1	...	1	3 5 2
Ekburn Higher .....	1	1	1	...	...	10 0 0
ch .....	0	0	...	...	...	...
Endale .....	1	0	...	...	...	...
and .....	1	1	...	...	1	...
on .....	1	1	1	...	...	16 5 0
.....	2	2	2	...	...	22 0 0
Edale .....	7	7	6	1	...	21 3 8
on-under-Lyne .....	1	1	1	...	...	7 0 0
hester .....	7	8	5	2	1	22 5 11
arth .....	1	0	...	...	...	...
lkirk .....	0	0	...	...	...	...
ot .....	0	0	...	...	...	...
es .....	4	3	3	...	...	11 4 3
ington .....	1	1	1	...	...	0 4 0
n .....	1	1	1	...	...	5 0 0
ty Police .....	...	33	22	3	8	118 8 0
Authorities .....	...	1	1	...	...	10 0 0
Totals ..	...	34	23	3	8	£128 8 0

TABLE L.

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FOOD AND DRUGS ACTS.

PROSECUTIONS.



The character of the adulteration in the condemned samples was as follows :—

Nature of Adulteration.	Percentage of Samples Analysed (including duplicate adulterations)	
	1923.	1922.
Added water exceeding 4% ...	1.28	1.00
Do. less than 4% ...	1.93	2.06
	3.21	3.06
Fat deficiency exceeding 10% ...	1.97	1.85
Do. less than 10% ...	3.02	2.95
	4.99	4.80
Cowdung exceeding 5 parts per 100,000 ...	0.62	0.50
Do. exceeding 2 parts, but not exceeding 5 parts	2.79	1.70
	3.41	2.20
Colouring matter... ..	0.13	0.07

No sample of milk in 1923 contained preservatives.

The following statement shows the extent to which the condemned samples were adulterated :—

Added water ... 31 contained from 4 to 10%  
 6 „ 10 to 13%  
 and 2 „ 20 and 21%  
 respectively.

Fat Deficiency... 33 showed a deficiency from 10 to 15%  
 18 „ „ 15 „ 30%  
 3 „ „ 30 „ 40%  
 3 „ „ 40 „ 45%  
 2 „ „ of 55 and 56%  
 respectively  
 and 1 „ „ 70%.

Cowdung ... 12 contained 5 parts by volume per 100,000  
 3 „ 6 „ „  
 2 „ 7 „ „  
 1 „ 9 „ „  
 and 1 „ 10 „ „

The average composition of the milk purchased for analysis in the County for the past three years is shown in the following table:—

Month.	% Fat.			% Non-fatty Solids.		
	1921.	1922.	1923.	1921.	1922.	1923.
January ...	3.69	3.57	3.55	8.89	9.06	8.98
February ...	3.70	3.52	3.53	8.91	9.11	8.97
March ...	3.68	3.65	3.56	8.91	9.07	9.02
April ...	3.68	3.57	3.60	8.93	9.00	9.02
May ...	3.39	3.65	3.59	8.93	9.00	9.03
June ...	3.41	3.54	3.69	9.04	9.02	9.10
July ...	3.49	3.61	3.51	8.78	8.92	8.95
August ...	3.58	3.79	3.60	8.94	9.02	9.03
September ...	3.62	3.83	3.84	8.92	9.01	9.09
October ...	3.72	3.81	3.93	9.00	9.01	9.11
November ...	3.86	3.75	3.85	9.00	9.09	9.03
December ...	3.68	3.78	3.75	8.98	9.02	9.00
Annual Average	3.65	3.69	3.68	8.94	9.03	9.03
No. of Samples	2451	2774	3011	2451	2774	3011

INFORMAL SAMPLES.—Four thousand three hundred and one samples, including 2,456 milks, were taken without notice to the sellers that they were intended for analysis, of which 75 milks and 18 other samples were found to be adulterated. Of the adulterated milks, 19 contained added water, 42 were deficient in cream, 12 contained cowdung, and 2 colouring matter. Further samples taken from the vendors of the watered milks were watered in 10 cases, deficient in cream in one case, and genuine in six cases. Further samples taken from the vendors of the milks deficient in cream were deficient in cream in 12 cases, watered in 2 cases, and genuine in 20 cases.

Where the formal samples turned out genuine, the vendors were cautioned in respect of the original informal sample, and have been or will be tried again formally. The same course was generally adopted in the case of milks containing cowdung.

Informal sampling in the case of milk has now been extensively adopted for the following reasons :—

- (1) It enables a larger number of samples to be taken in a shorter time and at less expense.
- (2) It is more effective in localising adulteration.
- (3) It helps to distinguish between occasional mishaps and systematic fraud or neglect.
- (4) It saves worry and annoyance to honest vendors.

Occasionally it happens that a wilfully adulterated sample is not secured again—but, if by the mere fact of taking an informal sample adulteration is checked, the object of the Act is attained though the vendor escapes punishment.

In order, however, that this may not happen too often, the Inspectors have instructions to purchase with the usual formalities from any vendor whose milk has been adversely reported on at any time during the past three years, so that informal samples of milk are purchased only from vendors who have a clear record for that period.

The Inspectors have, of course, full discretion to make a formal purchase in any other case where they deem it advisable to do so.

The 18 other adulterated informal samples were dealt with as follows : in seven cases correspondingly adulterated formal samples were obtained, but three were labelled as mixtures ; in four cases the formal samples were genuine, and in five cases cautions were administered.

PROSECUTIONS.—There have been 34 prosecutions, 33 in respect of samples purchased in 1923, and one false warranty case arising in 1922. Twenty-six related to milk (added water 15, deficient in cream 8, cowdung 1, colouring matter 2), 1 butter containing foreign fats, 4 margarines not properly labelled, 1 jam containing salicylic acid, and 1 ginger containing excess of mineral matter.

In 23 cases the defendants were fined or ordered to pay costs, 3 cases were withdrawn, and 8 dismissed.

The total fines and costs amounted to £128 8s., and the average penalty was £5 11s. 8d., an increase of £1 1s. 9d. over the corresponding figure for 1922. (Table L, page 92, shows the prosecutions in each Police Division.)

OFFICIAL CAUTIONS BY THE CLERK OF THE COUNTY COUNCIL.—In five cases it was deemed advisable to draw the attention of manufacturers to matters which called for remedy, by means of a cautionary letter.

ANALYSES OF DISPENSED MEDICINES.—Twenty-five samples of dispensed medicines have been analysed for the Lancashire Insurance Committee.

Of these, 14 were correctly dispensed (or nearly so), and 11 were incorrect.

As this work has only just been commenced, it is too early to express any general opinion, but it is evident that some such supervision will be of great public benefit. The analyses in some cases are complicated and difficult, but possess an intrinsic interest, and one case has already opened up a point of general importance to both Pharmacists and Medical Practitioners, which is now under investigation.

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ISSUE OF DISTRICT HEALTH REPORTS.—The Ministry of Health, by Circular 451, dated 15th December, 1923, prescribed the form in which local Medical Officers of Health should prepare their annual reports, and indicated the minimum particulars such reports should contain.

The reports for 1923 are " Ordinary Reports " as defined in paragraph 3 of Circular 269 of the 28th December, 1921, and the reports for 1924 will also be " Ordinary Reports," but those for the year commencing 1st January, 1925, will be " Survey " Reports, in which Medical Officers of Health will be required to review the needs of their areas in relation to the protection of the public health, and the progress made in meeting those needs since the date of the previous Survey Reports (1919 and 1920). The Ministry of Health will at an appropriate date issue instructions in regard to the preparation of the next Survey Report.

Circular 451, above mentioned, states that the local reports should be completed and sent to the appropriate authorities *not later than the middle of April*. Many district reports did not come to hand until the middle of August.

SPECIAL REPORTS.—Special reports received in 1923 by the County Public Health Department from local Medical Officers numbered 192, of which 149 referred to school closures on account of the prevalence of infectious disease.

PAYMENTS TOWARDS SALARIES OF PUBLIC HEALTH OFFICERS.—From the Exchequer Contribution Account payments towards the salaries of public health officials are made by the County Council, under Section 24 of the Local Government Act, 1888, to the Councils of 19 boroughs, 83 urban districts, 19 rural districts, and two port sanitary districts. The total payments during the financial year ended March 31st, 1924, amounted to £21,820 9s. 1d., of which £8,375 6s. 11d. was in respect of Medical Officers of Health, and £13,445 2s. 2d. for Sanitary Inspectors.



In concluding my report for the year 1923, I beg to express my thanks to the district Medical Officers of Health and the local Sanitary Staffs for statistics and information supplied to the County Public Health Department during the year, and for the courtesy and cordial assistance I have invariably received.

Yours obediently,

J. J. BUTTERWORTH,  
County Medical Officer of Health.

Public Health Department,  
County Offices, Preston,  
August, 1924.

ADMINISTRATIVE COUNTY OF LANCASTER.

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BIRTH AND DEATH RATES

OF THE

BOROUGHES, URBAN AND RURAL DISTRICTS

FOR THE YEAR 1923,

COMPARED WITH THE RATES FOR THE YEAR 1922, AND WITH  
THE MEAN OF THE 10 YEARS 1913-1922.



# BOROUGHES AND URBAN DISTRICTS.

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Abram.—</b>				
Population, 6,987.				
<i>Mean of 10 years</i>				
1913-1922 .....	24·9	14·1	0·77	120
1922.....	16·6	14·1	0·71	111
1923.....	14·8	12·0	0·85	153
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—10·1	—2·1	+0·08	+33
Previous Year .....	—1·8	—2·1	+0·14	+42
<b>Accrington (Borough).—</b>				
Population, 44,180.				
<i>Mean of 10 years</i>				
1913-1922 .....	16·4	14·0	0·84	101
1922.....	16·0	13·3	0·81	91
1923.....	14·2	12·3	0·76	58
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·2	—1·7	—0·08	—43
Previous Year .....	—1·8	—1·0	—0·05	—33
<b>Adlington.—</b>				
Population, 4,530.				
<i>Mean of 10 years</i>				
1913-1922 .....	20·7	12·2	0·77	87
1922.....	19·2	13·4	1·54	114
1923.....	20·0	13·9	0·22	54
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·7	+1·7	—0·55	—33
Previous Year .....	+0·8	+0·5	—1·32	—60

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Ashton-in-Makerfield.—</b>				
Population, 23,450.				
<i>Mean of 10 years</i>				
1913-1922 .....	26·2	14·2	0·70	117
1922.....	21·4	13·6	0·60	112
1923.....	22·0	10·3	0·85	71
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—4·2	—3·9	+0·15	—46
Previous Year .....	+0·6	—3·3	+0·25	—41

**Ashton-under-Lyne (Borough).—**  
Population, 44,130.

<i>Mean of 10 years</i>				
1913-1922 .....	20·2	16·7	1·22	129
1922.....	19·6	13·5	0·96	91
1923.....	17·7	14·3	0·83	81
<i>Increase or Decrease in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—2·5	—2·4	—0·39	—48
<i>Previous Year</i> .....	—1·9	+0·8	—0·13	—10

**Aspull.—**  
Population, 8,217.

<i>Mean of 10 years</i>				
1913-1922 .....	26·6	16·1	0·76	122
1922.....	22·4	12·9	0·36	131
1923.....	22·8	10·3	0·12	58
<i>Increase or Decrease in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—3·8	—5·8	—0·64	—64
<i>Previous Year</i> .....	+0·4	—2·6	—0·24	—73



	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Atherton.—</b>				
Population, 20,440.				
<i>Mean of 10 years</i>				
1913-1922 .....	22.3	13.3	0.85	112
1922.....	21.7	12.2	0.88	89
1923.....	17.3	11.8	0.68	101
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—5.0	—1.5	—0.17	—11
Previous Year .....	—4.4	—0.4	—0.20	+12
<b>Audenshaw.—</b>				
Population, 8,165.				
<i>Mean of 10 years</i>				
1913-1922 .....	18.8	13.6	0.69	112
1922.....	17.8	10.8	0.12	48
1923.....	18.2	12.6	0.97	100
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0.6	—1.0	+0.28	—12
Previous Year .....	+0.4	+1.8	+0.85	+52
<b>Bacup (Borough).—</b>				
Population, 21,550.				
<i>Mean of 10 years</i>				
1913-1922 .....	17.2	16.2	0.82	103
1922.....	18.7	15.0	0.83	101
1923.....	16.9	13.0	0.69	79
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0.3	—3.2	—0.13	—24
Previous Year .....	—1.8	—2.0	—0.14	—22

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Barrowford.—</b>				
Population, 5,685.				
<i>Mean of 10 years</i>				
1913-1922 .....	15.7	13.2	0.65	88
1922.....	13.1	10.6	0.17	120
1923.....	16.3	11.7	1.05	118
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+0.6	—1.5	+0.40	+30
Previous Year .....	+3.2	+1.1	+0.88	—2

<b>Billinge.—</b>				
Population, 5,245.				
<i>Mean of 10 years</i>				
1913-1922 .....	22.6	14.0	0.93	105
1922.....	16.1	13.6	1.32	152
1923.....	17.7	11.8	0.19	139
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	4.9	—2.2	—0.74	+34
Previous Year .....	+1.6	—1.8	—1.13	—13

<b>Blackrod.—</b>				
Population, 3,988.				
<i>Mean of 10 years</i>				
1913-1922 .....	22.5	13.8	0.63	111
1922.....	24.0	9.0	0.25	72
1923.....	18.5	13.7	0.50	108
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—4.0	—0.1	—0.13	—3
Previous Year .....	—5.5	+4.7	+0.25	+36

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Brierfield.—</b>				
Population, 8,392.				
<i>Mean of 10 years</i>				
1913-1922 .....	15·9	13·2	1·04	92
1922.....	15·0	14·3	0·94	94
1923.....	14·1	10·8	0·47	92
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·8	—2·4	—0·57	nil.
Previous Year .....	—0·9	—3·5	—0·47	—2
<b>Carnforth.—</b>				
Population, 3,242.				
<i>Mean of 10 years</i>				
1913-1922 .....	21·3	12·1	0·48	65
1922.....	21·9	14·5	nil.	56
1923.....	21·5	13·5	0·30	114
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+0·2	+1·4	—0·18	+49
Previous Year .....	—0·4	—1·0	+0·30	+58
<b>Chadderton.—</b>				
Population, 29,340.				
<i>Mean of 10 years</i>				
1913-1922 .....	19·7	14·5	0·96	102
1922.....	18·9	13·5	1·01	66
1923.....	17·0	13·7	0·54	110
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·7	—0·8	—0·42	+8
Previous Year .....	—1·9	+0·2	—0·47	+44

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Chorley (Borough).—</b> Population, 31,300.				
<i>Mean of 10 years</i>				
<i>1913-1922</i> .....	19·8	14·3	0·82	114
1922.....	18·2	13·0	0·60	120
1923.....	18·3	12·3	0·67	92
<i>Increase or Decrease</i> <i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—1·5	—2·0	—0·15	—22
<i>Previous Year</i> .....	+0·1	—0·7	+0·07	—28

<b>Church.—</b> Population, 6,876.				
<i>Mean of 10 years</i> <i>1913-1922</i> .....	19·0	14·6	0·82	106
1922.....	20·1	15·5	1·30	115
1923.....	17·5	12·6	0·14	74
<i>Increase or Decrease</i> <i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—1·5	—2·0	—0·68	—32
<i>Previous Year</i> .....	—2·6	—2·9	—1·16	—41

<b>Clayton-le-Moors.—</b> Population, 8,757.				
<i>Mean of 10 years</i> <i>1913-1922</i> .....	19·0	14·4	0·72	124
1922.....	19·6	15·3	0·34	87
1923.....	18·1	11·3	0·45	69
<i>Increase or Decrease</i> <i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—0·9	—3·1	—0·27	—55
<i>Previous Year</i> .....	—1·5	—4·0	+0·11	—18

## PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Death-rate from Tuberculosis of Respiratory System.	Rate of Deaths under 1 year to 1,000 Births.
<b>Clitheroe (Borough).—</b>				
Population, 12,370.				
<i>Mean of 10 years</i>				
1913-1922 .....	16·3	13·7	0·90	89
1922.....	13·8	12·1	0·48	35
1923.....	13·2	12·6	0·48	79
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—3·1	—1·1	—0·42	—10
<i>Previous Year</i> .....	—0·6	+0·5	nil.	+44

**Colne (Borough).—**  
Population, 25,260.

<i>Mean of 10 years</i>				
1913-1922 .....	15·7	13·4	0·92	111
1922.....	17·1	14·0	0·90	113
1923.....	15·2	12·7	1·10	111
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—0·5	—0·7	+0·18	nil.
<i>Previous Year</i> .....	—1·9	—1·3	+0·20	—2

**Crompton.—**  
Population, 15,320.

<i>Mean of 10 years</i>				
1913-1922 .....	18·7	15·2	1·02	115
1922.....	17·8	17·2	0·78	113
1923.....	16·2	12·9	0·71	92
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—2·5	—2·3	—0·31	—23
<i>Previous Year</i> .....	—1·6	—4·3	0·07	—21

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Croston.—</b>				
Population, 2,002.				
<i>Mean of 10 years</i>				
1913-1922 .....	16.1	12.4	0.35	50
1922.....	16.4	10.4	nil.	nil.
1923.....	15.9	18.4	nil.	125
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0.2	+6.0	—0.35	+75
Previous Year .....	—0.5	+8.0	nil.	+125
<b>Dalton-in-Furness.—</b>				
Population, 12,460.				
<i>Mean of 10 years</i>				
1913-1922 .....	24.5	15.0	1.28	97
1922.....	22.0	14.1	1.51	83
1923.....	19.5	13.9	1.52	86
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—5.0	—1.1	+0.24	— 11
Previous Year .....	—2.5	—0.2	+0.01	+3
<b>Darwen (Borough).—</b>				
Population, 38,980.				
<i>Mean of 10 years</i>				
1913-1922 .....	15.8	14.6	0.70	97
1922.....	17.3	14.4	0.48	83
1923.....	15.4	13.5	0.56	78
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0.4	—1.1	—0.14	19
Previous Year .....	—1.9	—0.9	+0.08	—5



	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Denton.</b> —				
Population, 17,970.				
<i>Mean of 10 years</i>				
1913-1922 .....	18.1	13.4	0.90	101
1922.....	15.6	12.2	0.83	96
1923.....	17.3	12.0	0.94	80
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0.8	—1.4	+0.04	—21
Previous Year ... ..	+1.7	—0.2	+0.11	—16

<b>Droylsden.</b> —				
Population, 14,170.				
<i>Mean of 10 years</i>				
1913-1922 .....	20.9	13.8	1.15	93
1922.....	20.3	10.8	0.84	82
1923.....	20.7	13.1	0.63	108
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0.2	—0.7	—0.52	+15
Previous Year .....	+0.4	+2.3	—0.21	+26

<b>Eccles (Borough).</b> —				
Population, 45,270.				
<i>Mean of 10 years</i>				
1913-1922 .....	18.9	13.3	1.08	88
1922.....	18.1	13.3	1.10	93
1923.....	17.4	10.8	0.94	53
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1.5	—2.5	—0.14	—35
Previous Year .....	—0.7	—2.5	—0.16	—40

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Failsworth.—</b>				
Population, 17,280.				
<i>Mean of 10 years</i>				
1913-1922 .....	20·3	13·6	1·10	95
1922.....	17·5	14·9	0·97	85
1923.....	17·4	12·0	1·33	106
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·9	—1·6	+0·23	+11
Previous Year .....	—0·1	—2·9	+0·36	+21

**Farnworth.—**

Population, 28,890.

<i>Mean of 10 years</i>				
1913-1922 .....	20·5	15·1	1·00	125
1922.....	18·6	13·0	0·90	68
1923.....	17·8	12·0	0·79	69
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·7	—3·1	—0·21	—56
Previous Year .....	—0·8	—1·0	—0·11	+1

**Fleetwood.—**

Population, 19,900.

<i>Mean of 10 years</i>				
1913-1922 .....	22·4	13·0	0·97	96
1922.....	20·7	12·6	0·93	97
1923.....	22·0	9·5	0·70	66
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·4	—3·5	—0·27	—30
Previous Year .....	+1·3	—3·1	—0·23	—31

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Formby.—</b>				
Population, 6,311.				
<i>Mean of 10 years</i>				
1913-1922 .....	15.1	12.0	0.87	48
1922.....	13.1	12.7	0.95	48
1923.....	14.4	9.9	0.79	nil.
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0.7	—2.1	— 0.08	—48
Previous Year .....	+1.3	—2.8	—0.16	—48

**Fulwood.—**

Population ... { For Birth-rate 6,798. For Death-rate 6,007.				
<i>Mean of 10 years</i>				
1913-1922 .....	12.6	15.4	0.62	65
1922.....	11.2	10.8	nil.	26
1923.....	9.2	14.9	0.99	63
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—3.4	—0.5	+0.37	—2
Previous Year .....	—2.0	+4.1	+0.99	+37

**Golborne.—**

Population, 7,552.				
<i>Mean of 10 years</i>				
1913-1922 .....	26.8	14.4	0.83	110
1922.....	23.0	13.6	1.21	52
1923.....	21.1	9.6	0.92	62
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—5.7	—4.8	+0.09	—48
Previous Year .....	—1.9	—4.0	—0.29	+10

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Grange-over-Sands.—</b>				
Population, 2,005.				
<i>Mean of 10 years</i>				
1913-1922 .....	9·6	13·1	0·72	44
1922.....	9·4	12·4	0·49	105
1923.....	8·9	17·9	0·49	nil.
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
Ten Years' Average .....	—0·7	+4·8	— 0·23	44
Previous Year .....	— 0·5	+5·5	nil.	105

**Great Crosby.—**

Population, 13,650.

<i>Mean of 10 years</i>				
1913-1922 .....	17·8	10·7	0·69	73
1922.....	14·9	12·9	0·88	88
1923.....	14·8	10·0	0·80	68
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—3·0	—0·7	+0·11	— 5
<i>Previous Year</i> .....	—0·1	—2·9	— 0·08	20

**Great Harwood.—**

Population, 13,970.

<i>Mean of 10 years</i>				
1913-1922 .....	16·9	12·1	0·63	90
1922.....	16·3	11·4	0·42	74
1923.....	15·6	13·9	0·57	87
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—1·3	+1·8	—0·06	—3
<i>Previous Year</i> .....	—0·7	+2·5	+0·15	+13

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Haslingden (Borough).—</b>				
Population, 17,710.				
<i>Mean of 10 years</i>				
<i>1913-1922 .....</i>	14.5	14.4	0.80	95
<i>1922.....</i>	13.6	13.9	0.84	82
<i>1923.....</i>	13.7	15.9	0.67	90
<i>Increase or Decrease in 1923 on—</i>				
<i>Ten Years' Average .....</i>	—0.8	+1.5	—0.13	—5
<i>Previous Year .....</i>	+0.1	+2.0	—0.17	+8

<b>Haydock.—</b>				
Population, 10,930.				
<i>Mean of 10 years</i>				
1913-1922 .....	29.5	14.5	0.85	116
1922.....	26.0	10.7	0.74	78
1923.....	24.6	9.5	0.36	81
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—4.9	—5.0	—0.49	—35
Previous Year .....	—1.4	—1.2	—0.38	+3

<b>Heysham.—</b>				
Population, 3,950.				
<i>Mean of 10 years</i>				
1913-1922 .....	11.7	14.9	0.66	52
1922.....	9.9	15.4	0.78	52
1923.....	12.6	12.6	0.25	40
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+0.9	—2.3	—0.41	—12
Previous Year .....	+2.7	—2.8	—0.53	—12

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Heywood (Borough).—</b>				
Population, 27,030.				
<i>Mean of 10 years</i>				
1913-1922 .....	18·7	16·9	1·10	120
1922.....	17·8	16·0	0·84	108
1923.....	16·8	16·5	1·25	103
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·9	—0·4	+0·15	—17
Previous Year .....	—1·0	+0·5	+0·41	—5

**Hindley.—**

Population, 24,450.

<i>Mean of 10 years</i>				
1913-1922 .....	25·2	15·8	0·78	125
1922.....	21·0	14·3	0·86	81
1923.....	19·1	15·1	0·73	144
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—6·1	—0·7	—0·05	+19
Previous Year .....	—1·9	+0·8	—0·13	+63

**orwich.—**

Population, 15,940.

<i>Mean of 10 years</i>				
1913-1922 .....	18·1	12·0	0·85	84
1922.....	16·7	13·0	1·13	116
1923.....	16·4	9·9	0·43	53
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·7	—2·1	—0·42	—31
Previous Year .....	—0·3	—3·1	—0·70	—63



	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Hurst.—</b>				
Population, 8,328.				
<i>Mean of 10 years</i>				
1913-1922 .....	21.2	15.0	1.12	100
1922.....	21.3	13.0	1.08	44
1923.....	14.5	13.9	0.72	115
<i>Increase or Decrease in 1923 on—</i>				
<i>Ten Years' Average .....</i>	—6.7	—1.1	—0.40	+15
<i>Previous Year .....</i>	—6.8	+0.9	—0.36	+71

**Huyton-with-Roby.—**

Population, 5,194.

<i>Mean of 10 years</i>				
1913-1922 .....	17.8	13.0	0.70	80
1922.....	15.7	12.1	1.15	48
1923.....	14.4	8.6	0.57	26
<i>Increase or Decrease in 1923 on—</i>				
<i>Ten Years' Average .....</i>	—3.4	—4.4	—0.13	—54
<i>Previous Year .....</i>	—1.3	—3.5	—0.58	—22

**Ince-in-Makerfield.—**

Population, 24,020.

<i>Mean of 10 years</i>				
1913-1922 .....	29.2	17.0	0.88	130
1922.....	23.9	14.0	0.71	103
1923.....	22.9	12.7	0.83	108
<i>Increase or Decrease in 1923 on—</i>				
<i>Ten Years' Average .....</i>	—6.3	—4.3	—0.05	—22
<i>Previous Year .....</i>	—1.0	—1.3	+0.12	+5

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Irlam.—</b>				
Population, 11,300.				
<i>Mean of 10 years</i>				
1913-1922 .....	24.1	11.7	0.54	93
1922.....	26.8	11.3	0.49	78
1923.....	24.7	8.8	0.35	67
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+0.6	—2.9	—0.19	—26
Previous Year .....	—2.1	—2.5	—0.14	—11

<b>Kearsley.—</b>				
Population, 10,130.				
<i>Mean of 10 years</i>				
1913-1922 .....	21.2	14.1	0.68	124
1922.....	16.7	10.5	1.10	84
1923.....	18.9	14.4	1.08	88
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2.3	+0.3	+0.40	—36
Previous Year .....	+2.2	+3.9	—0.02	+4

<b>Kirkham.—</b>				
Population, 3,836.				
<i>Mean of 10 years</i>				
1913-1922 .....	19.1	16.5	1.24	129
1922.....	22.5	20.4	0.77	160
1923.....	22.4	13.2	0.26	46
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+3.3	—3.3	—0.98	—83
Previous Year .....	—0.1	—7.2	—0.51	—114

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Lancaster (Borough).—</b>				
Population, 40,990.				
<i>Mean of 10 years</i>				
1913-1922 .....	18·7	14·3	1·24	99
1922.....	17·2	13·6	1·10	83
1923.....	17·2	12·1	1·07	83
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·5	—2·2	—0·17	—16
Previous Year .....	nil.	—1·5	—0·03	nil.
<b>Lathom and Burscough.—</b>				
Population, 7,691.				
<i>Mean of 10 years</i>				
1913-1922 .....	21·1	14·0	0·62	98
1922.....	17·3	11·5	0·38	89
1923.....	20·6	11·1	0·52	94
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·5	—2·9	—0·10	—4
Previous Year .....	+3·3	—0·4	+0·14	+5
<b>Lees.—</b>				
Population, 4,893.				
<i>Mean of 10 years</i>				
1913-1922 .....	19·5	17·5	0·74	119
1922.....	20·4	12·7	0·20	69
1923.....	16·7	15·1	0·20	146
<i>Increase or Decrease in 1923 on —</i>				
Ten Years' Average .....	—2·8	—2·4	—0·54	+27
Previous Year .....	—3·7	+2·4	nil.	+77

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Leigh (Borough).—</b>				
Population, 46,750.				
<i>Mean of 10 years</i>				
1913-1922 .....	23·2	15·7	1·19	127
1922.....	21·1	14·5	1·07	89
1923.....	18·2	12·1	0·91	85
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—5·0	—3·6	—0·28	—42
Previous Year .....	—2·9	—2·4	—0·16	—4

**Leyland.—**

Population, 9,212.

<i>Mean of 10 years</i>				
1913-1922 .....	18·1	13·6	0·75	89
1922.....	16·6	14·1	0·10	90
1923.....	17·0	13·5	0·65	82
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·1	—0·1	—0·10	—7
Previous Year .....	+0·4	—0·6	+0·55	—8

**Litherland.—**

Population, 17,090.

<i>Mean of 10 years</i>				
1913-1922 .....	28·3	15·0	1·31	104
1922.....	25·3	11·6	0·94	91
1923.....	22·8	10·4	0·87	82
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—5·5	—4·6	—0·44	—22
Previous Year .....	—2·5	—1·2	—0·07	—9

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Littleborough.—</b> Population, 11,660.				
<i>Mean of 10 years</i>				
1913-1922 .....	16·2	15·3	0·74	96
1922.....	17·1	14·7	0·51	74
1923.....	16·2	15·7	0·94	105
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	nil.	+0·4	+0·20	+9
Previous Year .....	—0·9	+1·0	+0·43	+31

<b>Little Crosby.—</b> Population, 1,155.				
<i>Mean of 10 years</i>				
1913-1922 .....	19·1	10·3	0·76	52
1922.....	14·2	8·0	0·89	nil.
1923.....	16·4	5·1	nil.	nil.
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·7	—5·2	—0·76	—52
Previous Year .....	+2·2	—2·9	—0·89	nil.

<b>Little Hulton.—</b> Population, 8,206.				
<i>Mean of 10 years</i>				
1913-1922 .....	21·3	13·1	0·79	97
1922.....	19·1	10·4	0·36	82
1923.....	16·8	11·0	0·48	115
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—4·5	—2·1	—0·31	+18
Previous Year .....	—2·3	+0·6	+0·12	+33

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Little Lever.—</b>				
Population, 5,032.				
<i>Mean of 10 years</i>				
1913-1922 .....	18·2	15·2	0·76	117
1922.....	20·5	14·2	0·60	137
1923.....	16·0	17·4	0·59	271
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·2	+2·2	—0·17	+154
Previous Year .....	—4·5	+3·2	—0·01	+134

<b>Longridge.—</b>				
Population, 4,323.				
<i>Mean of 10 years</i>				
1913-1922 .....	17·5	15·3	0·92	135
1922.....	15·8	16·1	0·69	86
1923.....	16·8	11·1	0·92	95
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·7	—4·2	nil.	—40
Previous Year .....	+1·0	—5·0	+0·23	+9

<b>Lytham Saint Anne's (Borough).</b>				
Population, 20,910.				
<i>Mean of 10 years</i>				
1913-1922 .....	11·9	12·9	0·56	58
1922.....	12·2	13·4	0·62	43
1923.....	11·5	12·4	0·38	45
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·4	—0·5	—0·18	—13
Previous Year .....	—0·7	—1·0	—0·24	+2



	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Middleton (Borough).—</b>				
Population, 28,870.				
<i>Mean of 10 years</i>				
1913-1922 .....	17·5	14·3	1·06	96
1922.....	17·5	13·1	0·93	72
1923.....	14·7	12·3	0·65	72
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·8	—2·0	—0·41	—18
Previous Year .....	—2·8	—0·8	—0·28	nil.
<b>Milnrow.—</b>				
Population, 8,563.				
<i>Mean of 10 years</i>				
1913-1922 .....	15·9	16·3	1·01	112
1922.....	14·8	21·5	1·52	190
1923.....	16·1	11·5	0·35	50
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+0·2	—4·8	—0·66	—62
Previous Year .....	+1·3	—10·0	—1·17	—140
<b>Morecambe (Borough).—</b>				
Population, 13,910.				
<i>Mean of 10 years</i>				
1913-1922 .....	13·4	14·7	0·73	75
1922.....	13·2	15·6	0·80	76
1923.....	13·3	16·6	1·07	64
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·1	+1·9	+0·34	—11
Previous Year .....	+0·1	+1·0	+0·27	—12

	PER 1,000 OF POPULATION			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Mossley (Borough).—</b>				
Population, 12,900.				
<i>Mean of 10 years</i>				
1913-1922 .....	17·9	15·1	0·90	89
1922.....	16·3	14·6	1·00	66
1923.....	16·3	14·4	1·00	85
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·6	—0·7	+0·10	—4
Previous Year.....	nil.	—0·2	nil.	+19

<b>Nelson (Borough).—</b>				
Population, 40,380.				
<i>Mean of 10 years</i>				
1913-1922 .....	13·8	11·6	0·68	94
1922.....	13·5	12·8	0·54	97
1923.....	14·2	11·1	0·47	76
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+0·4	—0·5	—0·21	—18
Previous Year .....	+0·7	—1·7	—0·07	—21

<b>Newton-in-Makerfield.—</b>				
Population, 19,520.				
<i>Mean of 10 years</i>				
1913-1922 .....	22·9	12·9	0·94	93
1922.....	21·7	11·2	0·62	78
1923.....	20·3	10·4	0·56	90
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·6	—2·5	0·38	—3
Previous Year .....	—1·4	—0·8	—0·06	+12

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Norden.—</b>				
Population, 4,153.				
<i>Mean of 10 years</i>				
1913-1922 .....	16.0	13.7	0.74	100
1922.....	13.7	12.3	0.48	122
1923.....	15.8	14.4	nil.	45
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	— 0.2	+0.7	—0.74	—55
Previous Year .....	+2.1	+2.1	—0.48	—77

<b>Ormskirk.—</b>				
Population, 7,553.				
<i>Mean of 10 years</i>				
1913-1922 .....	20.7	15.4	1.16	88
1922 .....	20.3	14.5	0.53	71
1923.....	17.2	13.3	0.66	30
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—3.5	—2.1	—0.50	—58
Previous Year .....	—3.1	—1.2	+0.13	—41

<b>Orrell.—</b>				
Population, 7,053.				
<i>Mean of 10 years</i>				
1913-1922 .....	22.8	13.4	0.74	120
1922.....	21.3	12.3	0.71	73
1923.....	20.1	12.7	0.85	112
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2.7	—0.7	+0.11	—8
Previous Year .....	—1.2	+0.4	+0.14	+39

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Oswaldtwistle.—</b>				
Population, 15,370.				
<i>Mean of 10 years</i>				
1913-1922 .....	18·8	14·2	0·76	109
1922.....	18·2	13·1	0·71	81
1923.....	18·4	13·0	0·32	74
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·4	—1·2	—0·44	—35
Previous Year .....	+0·2	—0·1	—0·39	—7
<b>Padiham.—</b>				
Population, 12,720.				
<i>Mean of 10 years</i>				
1913-1922 .....	18·4	14·8	0·92	112
1922.....	19·7	14·9	0·62	83
1923.....	15·8	11·7	0·94	79
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·6	—3·1	+0·02	—33
Previous Year .....	—3·9	—3·2	+0·32	—4
<b>Poulton-le-Fylde.—</b>				
Population, 2,755.				
<i>Mean of 10 years</i>				
1913-1922 .....	16·6	14·8	0·66	77
1922.....	21·8	12·7	1·09	16
1923.....	17·4	14·5	nil.	83
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+0·8	—0·3	—0·66	+6
Previous Year .....	—4·4	+1·8	—1·09	+67

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Preesall.—</b>				
Population, 1,735.				
<i>Mean of 10 years</i>				
1913-1922 .....	16·7	11·3	0·54	60
1922.....	13·0	14·2	1·78	90
1923.....	21·3	12·6	0·57	54
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+4·6	+1·3	+0·03	—6
Previous Year .....	+8·3	—1·6	—1·21	—36
<b>Prescot.—</b>				
Population, 9,586.				
<i>Mean of 10 years</i>				
1913-1922 .....	25·1	15·3	1·04	105
1922.....	21·6	13·6	0·95	137
1923.....	21·2	10·4	0·93	39
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—3·9	—4·9	—0·11	—66
Previous Year .....	—0·4	—3·2	—0·02	—98
<b>Prestwich.—</b>				
Population, 19,140.				
<i>Mean of 10 years</i>				
1913-1922 .....	16·2	11·8	0·94	63
1922.....	12·3	8·6	0·68	51
1923.....	14·3	9·8	0·78	36
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·9	—2·0	—0·16	—27
Previous Year .....	+2·0	+1·2	+0·10	—15

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Radcliffe.—</b>				
Population, 25,290.				
<i>Mean of 10 years</i>				
1913-1922 .....	17·2	14·9	0·87	108
1922.....	17·4	14·2	0·71	88
1923.....	16·5	13·6	0·63	74
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·7	—1·3	—0·24	—34
Previous Year .....	—0·9	—0·6	—0·08	—14

**Rainford.—**

Population, 3,553.

<i>Mean of 10 years</i>				
1913-1922 .....	23·2	12·6	0·26	70
1922.....	21·0	9·8	nil.	80
1923.....	19·4	10·9	nil.	115
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—3·8	—1·7	—0·26	+45
Previous Year .....	—1·6	+1·1	nil.	+35

**Ramsbottom.—**

Population, 15,420.

<i>Mean of 10 years</i>				
1913-1922 .....	15·3	14·2	0·88	92
1922.....	15·2	14·5	1·03	139
1923.....	13·7	13·0	0·45	51
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·6	—1·2	—0·43	41
Previous Year .....	—1·5	—1·5	—0·58	88



	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Rawtenstall (Borough).—</b> Population, 29,020.				
<i>Mean of 10 years</i>				
1913-1922 .....	16·7	14·1	0·78	89
1922.....	16·9	15·0	0·68	89
1923.....	17·4	13·5	0·51	75
<i>Increase or Decrease</i> <i>in 1923 on—</i>				
Ten Years' Average .....	+0·7	—0·6	—0·27	—14
Previous Year .....	+0·5	—1·5	—0·17	—14

<b>Rishton.—</b> Population, 7,135.				
<i>Mean of 10 years</i>				
1913-1922 .....	15·6	12·3	0·76	78
1922.....	16·3	12·8	0·27	111
1923.....	14·1	11·2	0·42	79
<i>Increase or Decrease</i> <i>in 1923 on—</i>				
Ten Years' Average .....	—1·5	—1·1	—0·34	+1
Previous Year .....	—2·2	—1·6	+0·15	—32

<b>Royton.—</b> Population, 17,680.				
<i>Mean of 10 years</i>				
1913-1922 .....	19·7	15·7	0·92	115
1922.....	19·6	13·4	0·45	92
1923.....	16·1	14·3	0·62	104
<i>Increase or Decrease</i> <i>in 1923 on—</i>				
Ten Years' Average .....	—3·6	—1·4	—0·30	—11
Previous Year .....	—3·5	+0·9	+0·17	+12

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Skelmersdale.—</b>				
Population, 6,946.				
<i>Mean of 10 years</i>				
1913-1922 .....	25·9	15·1	0·82	120
1922.....	21·6	14·5	0·87	60
1923.....	19·4	10·2	0·43	133
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—6·5	—4·9	—0·39	+13
Previous Year .....	—2·2	—4·3	—0·44	+73

**Standish-with-Langtree.—**  
Population, 7,553.

<i>Mean of 10 years</i>				
1913-1922 .....	22·1	13·8	0·66	122
1922.....	17·1	12·4	0·80	109
1923.....	20·6	11·2	0·66	96
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·5	—2·6	nil.	—26
Previous Year .....	+3·5	—1·2	—0·14	—13

**Stretford.—**  
Population, 47,920.

<i>Mean of 10 years</i>				
1913-1922 .....	15·7	11·6	0·89	69
1922.....	16·0	11·5	0·69	62
1923.....	16·7	12·1	0·68	75
<i>Increase or Decrease in 1923 on</i>				
Ten Years' Average .....	+1·0	+0·5	—0·21	+6
Previous Year .....	+0·7	+0·6	—0·01	+13

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Swinton and Pendlebury.—</b> Population, 32,000.				
<i>Mean of 10 years</i>				
1913-1922 .....	20.1	13.6	1.01	113
1922.....	19.0	11.0	0.78	76
1923.....	17.0	12.3	0.90	104
<i>Increase or Decrease in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—3.1	—1.3	—0.11	—9
<i>Previous Year</i> .....	—2.0	+1.3	+0.12	+28

<b>Thornton.—</b> Population, 5,501.				
<i>Mean of 10 years</i>				
1913-1922 .....	18.6	12.0	0.85	74
1922.....	14.5	9.7	0.73	25
1923.....	19.8	13.2	1.09	64
<i>Increase or Decrease in 1923 on—</i>				
<i>Ten Years' Average</i> .....	+1.2	+1.2	+0.24	—10
<i>Previous Year</i> .....	+5.3	+3.5	+0.36	+39

<b>Tottington.—</b> Population, 6,817.				
<i>Mean of 10 years</i>				
1913-1922 .....	14.3	13.5	1.02	82
1922.....	14.6	12.7	1.16	70
1923.....	14.2	11.1	0.29	92
<i>Increase or Decrease in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—0.1	—2.4	—0.73	+10
<i>Previous Year</i> .....	—0.4	—1.6	—0.87	+22

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Trawden.—</b>				
Population, 2,777.				
<i>Mean of 10 years</i>				
1913-1922 .....	16·4	12·2	0·78	90
1922.....	17·1	16·0	0·71	62
1923.....	14·0	16·5	0·72	76
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·4	+4·3	—0·06	—14
Previous Year .....	—3·1	+0·5	+0·01	+14

<b>Turton.—</b>				
Population, 12,280.				
<i>Mean of 10 years</i>				
1913-1922 .....	14·0	13·5	0·71	83
1922.....	14·8	14·3	0·48	71
1923.....	14·7	11·2	0·48	38
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+0·7	—2·3	—0·23	—45
Previous Year .....	—0·1	—3·1	nil.	—33

<b>Tyldesley-with-Shakerley.—</b>				
Population, 16,170.				
<i>Mean of 10 years</i>				
1913-1922 .....	23·7	14·8	0·95	111
1922.....	20·0	12·6	0·86	85
1923.....	19·0	13·0	0·49	90
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—4·7	—1·8	—0·46	—21
Previous Year .....	—1·0	+0·4	—0·37	+5

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Ulverston.—</b>				
Population, 10,120.				
<i>Mean of 10 years</i>				
1913-1922 .....	20·8	14·7	0·64	91
1922.....	18·1	14·9	0·49	97
1923.....	16·4	13·0	0·59	66
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—4·4	—1·7	—0·05	—25
Previous Year .....	—1·7	—1·9	+0·10	—31

**Upholland.—**

Population, 5,593.

<i>Mean of 10 years</i>				
1913-1922 .....	24·8	14·1	0·92	90
1922.....	20·8	17·6	1·07	42
1923.....	22·5	10·5	0·35	87
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·3	—3·6	—0·57	—3
Previous Year .....	+1·7	—7·1	—0·72	+45

**Urmston.—**

Population, 8,367.

<i>Mean of 10 years</i>				
1913-1922 .....	16·8	10·7	0·90	53
1922.....	16·9	12·1	0·71	69
1923.....	15·7	9·8	0·59	37
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·1	—0·9	—0·31	—16
Previous Year .....	—1·2	—2·3	—0·12	—32

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Walton-le-Dale.—</b>				
Population, 12,360.				
<i>Mean of 10 years</i>				
1913-1922 .....	18.0	13.5	0.83	97
1922.....	16.4	12.6	0.88	78
1923.....	17.3	11.4	0.48	60
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0.7	—2.1	—0.35	—37
Previous Year .....	+0.9	—1.2	—0.40	—18

**Wardle.—**

Population, 4,538.

<i>Mean of 10 years</i>				
1913-1922 .....	14.6	18.4	1.35	109
1922.....	12.6	18.1	0.44	140
1923.....	17.4	13.0	0.44	75
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+2.8	—5.4	—0.91	—34
Previous Year .....	+4.8	—5.1	nil.	—65

**Waterloo-with-Seaforth.—**

Population, 30,090.

<i>Mean of 10 years</i>				
1913-1922 .....	20.6	14.0	1.03	87
1922.....	19.4	12.8	1.06	67
1923.....	19.1	12.0	0.86	83
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1.5	—2.0	—0.17	—4
Previous Year .....	—0.3	—0.8	—0.20	+16



## PER 1,000 OF POPULATION.

Rate of  
Deaths  
under 1  
year to  
1,000  
Births.Birth-  
rate.Death-  
rate.Death-rate from  
Tuberculosis  
of Respiratory  
System.**Westhoughton.—**

Population, 16,260.

*Mean of 10 years*

1913-1922 ..... 22·5      13·5      0·55      116

1922..... 19·0      13·6      0·37      114

1923..... 18·3      12·3      0·86      103

*Increase or Decrease**in 1923 on—**Ten Years' Average* ..... —4·2      —1·2      +0·31      —13*Previous Year* ..... —0·7      —1·3      +0·49      —11**Whitefield.—**

Population, 7,099.

*Mean of 10 years*

1913-1922 ..... 16·8      13·6      0·65      96

1922..... 18·6      14·6      1·27      121

1923..... 15·7      12·9      0·56      98

*Increase or Decrease**in 1923 on—**Ten Years' Average* ..... —1·1      —0·7      —0·09      +2*Previous Year* ..... —2·9      —1·7      —0·71      —23**Whitworth.—**

Population, 8,871.

*Mean of 10 years*

1913-1922 ..... 15·9      17·4      1·27      105

1922..... 17·5      17·2      0·89      114

1923..... 15·4      16·0      0·90      102

*Increase or Decrease**in 1923 on—**Ten Years' Average* ..... —0·5      —1·4      —0·37      —3*Previous Year* ..... —2·1      —1·2      +0·01      —12

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Widnes (Borough).—</b>				
Population, 40,870.				
<i>Mean of 10 years</i>				
1913-1922 .....	27·9	16·9	1·27	110
1922.....	26·2	15·1	1·07	83
1923.....	25·3	11·1	0·78	68
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
Ten Years' Average .....	—2·6	—5·8	—0·49	—42
Previous Year .....	—0·9	—4·0	—0·29	—15

**Withnell.—**

Population, 3,470.

<i>Mean of 10 years</i>				
1913-1922 .....	17·2	12·1	0·72	58
1922.....	14·8	12·0	0·57	96
1923.....	13·8	12·1	1·15	104
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—3·4	nil.	—0·43	+46
<i>Previous Year</i> .....	—1·0	+0·1	+0·58	+8

**Worsley.—**

Population, 14,430.

<i>Mean of 10 years</i>				
1913-1922 .....	16·7	12·5	0·53	96
1922.....	15·9	11·3	0·20	61
1923.....	13·5	11·3	0·41	61
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—3·2	—1·2	—0·12	—35
<i>Previous Year</i> .....	—2·4	nil.	+0·21	nil.

## RURAL DISTRICTS.

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Barton-upon-Irwell.—</b>				
Population, 10,040.				
<i>Mean of 10 years</i>				
1913-1922 .....	18·3	12·1	0·95	64
1922.....	16·3	9·3	1·48	18
1923.....	13·7	11·3	0·69	57
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—4·6	—0·8	—0·26	—7
Previous Year .....	—2·6	+2·0	—0·79	+39
<b>Blackburn.—</b>				
Population, 10,120.				
<i>Mean of 10 years</i>				
1913-1922 .....	17·1	13·2	0·65	81
1922.....	16·0	11·1	0·68	85
1923.....	16·1	10·3	0·79	67
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·0	—2·9	+0·14	—14
Previous Year .....	+0·1	—0·8	+0·11	—18
<b>Burnley.—</b>				
Population, 19,520.				
<i>Mean of 10 years</i>				
1913-1922 .....	15·5	13·3	0·66	91
1922.....	15·0	12·8	0·41	64
1923.....	14·7	11·7	0·46	62
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·8	—1·6	—0·20	—29
Previous Year .....	—0·3	—1·1	+0·05	—2

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Bury.—</b>				
Population, 9,632.				
<i>Mean of 10 years</i>				
1913-1922 .....	16.9	14.2	0.78	88
1922.....	14.7	11.5	1.04	70
1923.....	15.2	11.6	1.03	68
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1.7	—2.6	+0.25	—20
Previous Year .....	+0.5	+0.1	—0.01	—2

<b>Chorley.—</b>				
Population, 22,380.				
<i>Mean of 10 years</i>				
1913-1922 .....	19.4	13.0	0.65	105
1922.....	19.1	12.9	0.53	93
1923.....	17.7	12.5	0.31	82
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1.7	—0.5	—0.34	—23
Previous Year .....	—1.4	—0.4	—0.22	—11

<b>Clitheroe.—</b>				
Population, 6,825.				
<i>Mean of 10 years</i>				
1913-1922 .....	16.1	12.7	0.61	69
1922.....	16.8	14.9	1.03	52
1923.....	15.0	14.3	0.87	58
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1.1	+1.6	+0.26	—11
Previous Year .....	—1.8	—0.6	—0.16	+6

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Fylde.—</b>				
Population, 12,910.				
<i>Mean of 10 years</i>				
1913-1922 .....	18·8	12·8	0·49	87
1922.....	16·4	12·9	0·46	94
1923.....	16·9	11·6	0·54	68
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·9	—1·2	+0·05	—19
Previous Year .....	+0·5	—1·3	+0·08	—26

<b>Garstang.—</b>				
Population, 10,930.				
<i>Mean of 10 years</i>				
1913-1922 .....	17·8	13·0	0·48	67
1922.....	19·4	13·7	0·27	90
1923.....	18·4	12·0	0·27	79
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+0·6	—1·0	—0·21	+12
Previous Year .....	—1·0	—1·7	nil.	—11

<b>Lancaster.—</b>				
Population, 9,392.				
<i>Mean of 10 years</i>				
1913-1922 .....	18·0	14·0	0·61	83
1922.....	17·5	13·3	0·63	84
1923.....	17·4	13·3	0·53	36
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—0·6	—0·7	—0·08	—47
Previous Year .....	—0·1	nil.	—0·10	—48

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Leigh.</b> —				
Population, 11,330.				
<i>Mean of 10 years</i>				
1913-1922 .....	23·2	13·9	0·61	107
1922.....	20·1	11·1	0·18	76
1923.....	19·1	11·2	0·61	78
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—4·1	—2·7	nil.	—29
Previous Year .....	—1·0	+0·1	+0·43	+2

**Limehurst.**—

Population ... { For Birth-rate 9,568.  
For Death-rate 9,317.

<i>Mean of 10 years</i>				
1913-1922 .....	19·9	14·8	0·95	102
1922.....	19·2	12·1	0·86	49
1923.....	18·7	12·4	0·85	78
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1·2	—2·4	—0·10	—24
Previous Year .....	—0·5	+0·3	—0·01	+29

**Lunesdale.**—

Population, 6,516.

<i>Mean of 10 years</i>				
1913-1922 .....	16·4	12·3	0·44	74
1922.....	13·4	13·2	0·45	125
1923.....	18·5	11·5	0·92	82
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	+2·1	—0·8	+0·48	+8
Previous Year .....	+5·1	—1·7	+0·47	—43



	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Preston.—</b>				
Population, 23,450.				
<i>Mean of 10 years</i>				
1913-1922 .....	17.3	13.0	0.74	79
1922.....	13.2	11.9	0.81	87
1923.....	15.9	10.1	0.72	67
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—1.4	—2.9	—0.02	—12
Previous Year .....	+2.7	—1.8	—0.09	—20
<b>Sefton.—</b>				
Population, 4,595.				
<i>Mean of 10 years</i>				
1913-1922 .....	17.1	12.5	1.08	74
1922.....	12.9	10.9	0.81	109
1923.....	14.5	9.3	1.08	44
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2.6	—3.2	nil.	—30
Previous Year .....	+1.6	—1.6	+0.27	—65
<b>Ulverston.—</b>				
Population, 18,000.				
<i>Mean of 10 years</i>				
1913-1922 .....	19.1	13.6	0.74	69
1922.....	18.7	11.9	0.33	56
1923.....	15.8	13.1	0.38	56
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—3.3	—0.5	—0.36	—13
Previous Year .....	—2.9	+1.2	+0.05	nil.

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Warrington.—</b>				
Population, 12,530.				
<i>Mean of 10 years</i>				
1913-1922 .....	20·7	12·5	0·88	88
1922.....	19·2	11·5	0·73	67
1923.....	18·6	9·1	0·63	85
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—2·1	—3·4	—0·25	—3
Previous Year .....	—0·6	—2·4	—0·10	+18

**West Lancashire.—**

Population, 21,690.

<i>Mean of 10 years</i>				
1913-1922 .....	18·6	12·8	0·68	77
1922.....	17·4	11·3	0·37	64
1923.....	15·0	11·7	0·59	58
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—3·6	—1·1	—0·09	—19
Previous Year .....	—2·4	+0·4	+0·22	—6

**Whiston.—**

Population, 20,260.

<i>Mean of 10 years</i>				
1913-1922 .....	22·0	13·7	0·94	91
1922.....	18·6	9·9	0·55	73
1923.....	16·2	9·5	0·64	36
<i>Increase or Decrease in 1923 on—</i>				
Ten Years' Average .....	—5·8	—4·2	—0·30	—55
Previous Year .....	—2·4	—0·4	+0·09	37

	PER 1,000 OF POPULATION.			Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.	
<b>Wigan.—</b>				
Population, 6,312.				
<i>Mean of 10 years</i>				
<i>1913-1922</i> .....	19·3	13·3	0·68	107
1922.....	15·2	11·2	0·47	135
1923.....	16·0	10·9	0·15	138
<i>Increase or Decrease</i>				
<i>in 1923 on—</i>				
<i>Ten Years' Average</i> .....	—3·3	—2·4	—0·53	+31
<i>Previous Year</i> .....	+0·8	—0·3	—0·32	+3

## ADMINISTRATIVE COUNTY.

PER 1,000 OF POPULATION.					Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Death-rate from Tuberculosis of Respiratory System.		
<b>Aggregate of County Urban Districts.—</b>					
Population ...	{ For Birth-rate 1,527,700. For Death-rate 1,526,909.				
<i>Mean of 10 years</i>					
1913-1922 .....	19.36	14.26	0.90		103
1922.....	18.28	13.43	0.79		87
1923.....	17.42	12.44	0.72		82
<i>Increase or Decrease in 1923 on—</i>					
Ten Years' Average .....	—1.94	—1.82	—0.18		—21
Previous Year .....	—0.86	—0.99	—0.07		—5
<b>Aggregate of County Rural Districts.—</b>					
Population ...	{ For Birth-rate 246,000. For Death-rate 245,749.				
<i>Mean of 10 years</i>					
1913-1922 .....	18.73	13.29	0.72		86
1922.....	17.04	11.99	0.60		75
1923.....	16.48	11.45	0.59		67
<i>Increase or Decrease in 1923 on—</i>					
Ten Years' Average .....	—2.25	—1.84	—0.13		—19
Previous Year .....	—0.56	—0.54	—0.01		—8
<b>Administrative County.—</b>					
Population ...	{ For Birth-rate 1,773,700. For Death-rate 1,772,658.				
<i>Mean of 10 years</i>					
1913-1922 .....	19.33	14.13	0.88		100
1922.....	18.11	13.23	0.77		85
1923.....	17.29	12.30	0.70		80
<i>Increase or Decrease in 1923 on—</i>					
Ten Years' Average .....	—2.04	—1.83	—0.18		—20
Previous Year .....	—0.82	—0.93	—0.07		—5

## \*EXTRACT FROM THE METEOROLOGICAL REPORT

BY THE

REV. A. L. CORTIE, S.J., D.Sc., F.R.A.S., F. Inst. P.,  
Of Stonyhurst College Observatory.

## SUMMARY OF OBSERVATIONS FOR 1923.

Results of Observations taken during the Year.					Mean for the last 76 years.
<i>Readings of Barometer in inches.</i>					
Mean of the year	...	...	...	29.454	29.494
Highest Monthly Mean (June)...	...	...	...	29.718	29.744
Lowest       "       "       (February)	...	...	...	29.088	29.224
Highest Reading (January 25th)	...	...	...	30.185	30.292
Lowest       "       (February 27th)	...	...	...	28.099	28.207
Range       ...       ...       ...       ...	...	...	...	2.086	2.085
<i>Thermometer, Fahrenheit.</i>					
Highest Monthly Mean Temperature	(July)			59.9	58.6
Lowest       "       "       (November)				37.9	35.7
Highest Reading of a Max. Therm.	(July 12th)       ...       ...       ...			82.5	81.3
Lowest Reading of a Min. Therm.	(December 25th)       ...       ...       ...			23.5	16.3
Range of Thermometer Readings	...			59.0	65.0
Mean of Highest Daily       "       ...	...			52.0	54.4
Mean of Lowest Daily       "       ...	...			41.7	41.0
Mean Daily Range       ...       ...       ...	...			10.3	13.4
Deduced Mean Temperature (from mean of Max. and Min.)       ...       ...       ...	...			45.8	46.8
Mean Temperature from Dry Bulb       ...	...			47.1	47.1
Adopted Mean Temperature of the Year				46.5	47.0
Mean Temperature of Evaporation       ...	...			44.5	44.6
Mean Temperature of Dew Point       ...	...			42.3	42.1
Mean elastic force of Vapour       ... inches				0.275	0.274
Mean weight of Vapour in a cubic foot of air       ...       ...       ...       ... grains				3.1	3.2
Mean additional weight required for saturation       ...       ...       ... grains				0.6	0.7
Mean degree of Humidity (saturation 100)				86	83

\* Introduced by kind permission.

Results of Observations taken during the Year.			Mean for the last 76 years.
Mean weight of a cubic foot of air.. grains	538.9		539.1
Mean amount of Cloud (0—10) ... ..	8.2		7.3
Total fall of Rain . ... ..inches	63.558		47.285
Greatest Monthly Rainfall (Nov.) ,,	7.801		7.591
Least ,, (March) ,,	1.424		1.243
Greatest Rainfall in one day (Nov. 12th) ,,	2.320		1.629
No. of days per Month on which .005 inch or more Rain fell ... ..	21.8		17.2

## SUMMARY OF WIND.

Prevailing direction	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
No. of days for each ... ..	18	32	41	4	33	32	185	20
Mean Velocity in miles per hour ...	5.9	6.5	9.5	9.7	10.4	10.2	11.2	8.8
Total No. of miles for each direction .	2564	4972	9328	927	10753	7870	49782	4223
							Mean for the last 56 years.	
Total No. of miles registered ... ..	90419				85520.2			
Greatest Monthly Total (January) ...	9630				9962.6			
Least ,, (November) ...	6385				4961.0			
Greatest hourly velocity (Feb. 7th) ...	48				50.4			
Prevailing Direction of Wind ... ..	W							



\* OBSERVATIONS BY J. J. BUTTERWORTH, M.D.,  
D.P.H., MEDICAL OFFICER OF HEALTH, LAN-  
CASHIRE COUNTY COUNCIL, ON SOME OF THE  
DIFFICULTIES EXPERIENCED IN THE ADMINIS-  
TRATION OF A COUNTY VENEREAL DISEASES  
SCHEME.

THE PROBLEM IN LANCASHIRE.

The County of Lancaster presents every kind of problem from the administrative point of view with regard to venereal diseases.

The north is almost entirely rural, devoted to dairy farming and grazing, thinly populated, and broken up in its northernmost part by hills and mountains into remote valleys to which access is difficult. In the west are the flat and level areas of the rich agricultural lands of the Fylde and West Lancashire. In the east, south, and south-east are the densely populated areas of industrial Lancashire.

The extreme length of the County measured in a straight line on a map is 76 miles, and its extreme breadth is 45 miles, but by existing means of transport its actual length is about 120 miles, and its breadth about 60 miles.

GEOGRAPHICAL COUNTY. ADMINISTRATIVE COUNTY, i.e. AREA UNDER ADMINISTRATION OF COUNTY COUNCIL, FOR VENEREAL DISEASES PURPOSES.		Area.	Population.
	Geographical County...	1,194,555	4,927,484
	17 County Boroughs ...	140,047	3,181,693
	19 Municipal Boroughs	86,426	580,924
	83 Urban Districts ...	255,458	922,749
	19 Rural Districts ...	712,624	242,218
	Total Administrative County ... ..	1,054,508	1,745,891
	Rateable value, £11,228,326. 1d. in the £ produces about £43,500.		

\* A Paper read by the County Medical Officer of Health at the Imperial Social Hygiene Congress, Venereal Diseases Treatment Section, at the British Empire Exhibition, Wembley, London, on Wednesday, May 14th, 1924. Reprinted by order of the Public Health and Housing Committee of the Lancashire County Council.

The predominantly industrial character of the County is shown in the following Table :—

*Occupations of Persons.*

(Geographical County.)				(Census, 1921.)	
				Males.	Females.
Total population	...	...	...	2,332,931	2,594,553
Number of persons not engaged in occupations	...	...	...	189,522	1,233,336
Number of persons 12 years of age and upwards engaged in occupations	...	...	...	1,614,243	833,717
Approximate number of persons occupied :—					
Metal workers	...	...	...	218,000	8,000
Transport	...	...	...	213,000	9,000
Textile workers	...	...	...	183,000	317,000
Commercial occupations	...	...	...	140,000	72,000
Clothing and textile goods	...	...	...	33,000	79,000
Mining and quarrying	...	...	...	110,000	2,000
Building and allied trades	...	...	...	77,000	—
Clerks and draughtsmen	...	...	...	81,000	50,000
Wood, furniture, &c.	...	...	...	64,000	4,000
Warehousemen, storekeepers, &c.	...	...	...	48,000	24,000
Professional occupations	...	...	...	31,000	38,000
Agricultural	...	...	...	48,000	5,000
Public administration and defence	...	...	...	31,000	6,000
Food, drinks, &c.	...	...	...	22,000	20,000
Paper, books, &c.	...	...	...	21,000	16,000

*Cotton Trade.*

Over 1,000 spinning mills employing 200,000 persons ; 250,000 persons engaged in weaving and finishing cotton goods. Total population engaged in textile work, 500,000.

*Coal Mining.*

25,000,000 tons mined annually in Lancashire. Estimated amount of coal still available in the County 4,000,000,000 tons.

*Stone and Ore Mining.*

Stone or rock or metallic ores mined annually in the County, 3,750,000 tons. Persons engaged in mines and quarries, 112,000.

*Agriculture.*

Total area of County, 1,200,000 (approx.) statute acres. Area cultivated, 800,000 acres. Persons employed in agriculture, 53,000. Area of Lancashire farms, average 36.5 acres.

## SYNOPSIS OF COUNTY SCHEME.

*(a) Treatment Centres.*

Arrangements for the treatment of venereal diseases have been made by the County Council with twenty-two hospitals and three *ad hoc* clinics in the Geographical County. These treatment centres, with one exception, are situated in the County Boroughs and are not evenly distributed geographically, being mainly in the thickly populated areas of south-east Lancashire. The residents in many of the rural and smaller urban districts have to travel considerable distances for treatment. There are several other hospitals in the Administrative County which might be used for the treatment of venereal disease, but it has not been possible, for various reasons, to make suitable arrangements.

The following Table I. is a synopsis of the work carried out in the treatment of residents in the Administrative County at the centres since the beginning of the scheme in 1918 :—

(It might be well to repeat that the term " Administrative County " means the whole of the Geographical County, excluding the seventeen County Boroughs.)

TABLE I.

No. of Persons resident in the *Administrative County* who have attended the Treatment Centres.

YEAR.	Number of Residents in the Administrative County area attending Treatment Centres for the <b>first</b> time and found to be suffering from :					Total No. of attendances of County Residents at Out-patient Clinics.	Aggregate No. of In-patient days.
	Syphilis.	Soft Chanere.	Gonorrhœa	Conditions other than Venereal.	Total.		
1918....	674	12	173	104	963	9,010	950
1919....	1,510	94	729	408	2,741	22,732	2,838
1920....	1,433	85	802	496	2,816	31,096	2,490
1921....	1,101	33	622	414	2,173	32,739	2,367
1922....	701	17	573	399	1,690	29,420	1,490
1923....	598	9	545	418	1,570	29,661	1,742

It will be observed that the number of patients is tending to decrease, and the average number of attendances to increase.

It has been found by experience that very few children or babies are presented at these clinics.

*Period of Attendance for Treatment at the Venereal Diseases Clinics.*

From the Returns made to the County Public Health Department from certain of the venereal diseases treatment centres in Lancashire during the six years 1918-1923, the following statistical details have been collated.

It should be stated that it has not been found possible from the information available to include in these statistics the large treatment centres in Liverpool and Manchester ; and from certain other Institutions the Returns do not cover the whole period of six years. In most instances the "Agreements" with the treatment centres are between the management of the Institution and the County Borough Council, and

the County Council has to rely for statistical details on Returns, often incomplete, supplied by the County Borough Health Departments.

I have endeavoured to ascertain, from the data available, the proportion of the total persons attending the clinics who *complete* the full course of treatment, or who cease to attend *before* completion of the course.

The statistics here quoted refer to 23,270 persons—males 17,164, and females 6,106—who attended certain Lancashire treatment centres, from which complete Returns have been received, between the date of the commencement of the County Scheme (1918) and December 31st, 1923.

The following tabular statement shows, as far as the data available permit, the percentage of persons who actually completed the course and attended the final tests, contrasted with those who ceased to attend at various stages of treatment.

Years 1918-1923 :—

	Syphilis.		Soft Chancre.		Gonorrhœa.	
	M.	F.	M.	F.	M.	F.
Persons who ceased to attend the Clinic at various stages of treatment and before the <i>final</i> tests as to cure . . . . .	0 %	0 %	0 %	0 %	0 %	0 %
	79.3*	80.5*	57.5*	71.9*	60.7*	61.0*
Persons transferred to other Treatment Centres after treatment	6.4	4.7	3.6	2.2	8.9	10.4
Persons discharged from the Clinic after completion of treatment and observation . .	14.2	14.7	38.8	25.8	30.3	28.5

\* Include a large percentage (in the case of syphilis 35 to 40 per cent.) who completed the course of treatment, but did not attend for the final tests.

The following percentages may be of interest.

Year 1918 :—

	Syphilis.		Soft Chancre.		Gonorrhœa.	
	M.	F.	M.	F.	M.	F.
	%	%	%	%	%	%
Persons who ceased to attend the Clinic at various stages of treatment and before the <i>final</i> tests as to cure .. ..	80.3*	78.6*	90.9*	..	68.0*	66.6*
Persons transferred to other Treatment Centres after treatment	..	..	..	..	..	..
Persons discharged from the Clinic after completion of treatment and observation ..	19.6	21.3	9.1	..	32.0	33.3

\* Include a large percentage (in the case of syphilis 35 to 40 per cent.) who completed the course of treatment, but did not attend for the final tests.

For the years 1919 and 1920 :—

	Syphilis.		Soft Chancre.		Gonorrhœa.	
	M.	F.	M.	F.	M.	F.
	%	%	%	%	%	%
Persons ceasing to attend Clinic before completing a course of treatment .. ..	45.7	46.3	23.4	41.3	45.0	32.1
Persons ceasing to attend after completion of a course of treatment, but before <i>final</i> tests as to cure .. ..	36.6	38.1	36.8	35.6	21.7	23.7
Persons transferred to other Treatment Centres after treatment	5.4	2.7	2.5	..	6.1	4.8
Persons discharged from the Clinic after completion of treatment and observation ..	12.1	12.7	37.2	23.0	27.0	19.4



For the years 1921, 1922, and 1923 :—

	Syphilis.		Soft Chancre.		Gonorrhœa.	
	M.	F.	M.	F.	M.	F.
	%	%	%	%	%	%
Persons ceasing to attend Clinic before completing a course of treatment .. ..	24.4	24.5	25.6	40.0	33.2	32.1
Persons ceasing to attend after one or more courses, but before completion of treatment .. ..	30.1	30.5	..	..	1.8	1.4
Persons ceasing to attend after completion of treatment, but before final tests as to cure ..	22.4	22.5	25.1	20.0	21.2	19.7
Persons transferred to other Treatment Centres after treatment	7.8	6.7	6.4	20.0	10.7	13.3
Persons discharged from the Clinic after completion of treatment and observation ..	15.2	15.5	42.7	20.0	32.9	33.3

#### CONCLUSIONS FROM THE ABOVE TABLES.

As regards syphilis, approximately 50 per cent. of both sexes cease to attend at the treatment centre *before* completing the full course of treatment.

During the last three years (1921-1923), as compared with 1919 and 1920, there was an increase in the percentage of persons discharged from the clinics *after* completion of treatment and observation, the percentage of the sexes being equal.

In gonorrhœa cases the percentage of completed attendances is higher than in syphilis.

*(b) Arrangements for General Practitioners.*

The Lancashire County Council have made arrangements by which medical practitioners practising in the Administrative County area can be supplied gratuitously with the necessary outfits for collecting materials for examination from persons suspected to be suffering from venereal disease, and scientific reports upon the materials submitted are furnished to them direct by the pathologist.

The laboratories available for such examinations are :—

Liverpool	... The University of Liverpool, City Laboratory and School of Hygiene, Mount Pleasant. (Prof. Beattie.)
Manchester	... The University of Manchester, Public Health Laboratory, York Place, Oxford Road, Manchester. (Prof. Topley, Director.)
Burnley	... The Borough Health Department Laboratory.

In addition to these laboratories, several of the Hospitals carry out portions of the bacteriological work.

It is not possible to state the number of patients treated by general practitioners either privately with their own drugs or with arseno-benzol compounds supplied by the County Council. It would be interesting to receive from practitioners an annual return of the number of persons treated by them.

The County Council supply free of charge arseno-benzol compounds to approved medical practitioners, and the following Table II. shows the amount of work carried out :—

# ADMINISTRATIVE COUNTY OF LANCASTER.

## Number of Outfits and the number of Doses of Arseno-benzol Compounds issued by County Council to Medical Practitioners.

Year.	No. of Outfits issued by County Council to Medical Practitioners.				Result of Examination of Specimens forwarded to the Manchester Laboratory.		Supply of Arseno-benzol Compounds.	
	Wassermann Test.	Detection of Spirochaete.	Detection of Gonococci.	Total.	Positive.	Negative.	Total No. of Practitioners "Approved."	Total No. of Doses supplied.
1918..... (portion)	195	10	51	256	per cent. 40.14	per cent. 59.86	27	269
1919.....	405	43	62	510	43.33	56.67	65	881
1920.....	602	18	39	659	34.01	65.99	96	944
1921.....	951	6	64	1,021	27.25	72.75	109	796
1922.....	580	13	37	630	38.73	61.27	116	517
1923.....	900	5	61	966	38.97	61.03	123	845

The addresses of the "approved" practitioners show that they are grouped for the most part around the large towns in the vicinity of the venereal disease treatment centres. The greater number of the "approved" practitioners received their training during military service.

Practitioners who did not receive training in venereal disease work during the war have not as a rule taken up this work, as it is difficult under present conditions to spare the necessary time and money for post-graduate work. Some of these continue to treat syphilis with mercury only.

In the course of my work I meet a large number of general practitioners, and those in practice in rural areas and in the smaller urban districts state that they rarely see cases of obvious venereal disease.

#### EDUCATIONAL WORK.

The County Public Health Department began educational work to combat venereal disease in the year 1917 by the appointment of two organisers—one male and one female—and since 1920 has continued the work mainly by the services of a woman organiser and a panel of about a dozen medical lecturers. The propaganda and educational arrangements have comprised lantern and film lectures in theatres, picture houses, public halls, &c., talks to mothers in child welfare centres, and lectures to men and women in clubs, works, institutes, &c. Special courses of lectures in biology have been given by a medical woman to teachers.

The following Table III. sets out the amount of work carried out in these directions :—

LANCASHIRE COUNTY COUNCIL.

Approximate Audiences reached by Propaganda Work carried out by the  
County Council Public Health Department.

Year.	Lectures and Addresses by Organising Lecturers, &c.			Medical Lectures.			Lectures to Teachers	Lectures to Mothers	Lantern Lectures	Film Lectures	Works Meetings.		TOTAL.
	Men.	Women.	Mixed.	Men.	Women.	Mixed.					Men.	Women.	
1919	310	910	8,450	2,827	4,010	500	390	1,275	1,890	2,300	2,160	2,630	27,652
1920	1,914	2,605	1,840	1,350	1,470	...	710	2,004	6,215	3,900	8,210	5,906	36,124
1921	2,914	3,773	1,875	1,290	725	60	350	1,318	2,100	122,500	...	66	136,971
1922	...	2,725	360	750	50	200	94	805	1,450	10,820	...	...	17,254
1923	...	3,125	360	1,340	...	60	540	...	520	13,400	...	100	19,445
	5,138	13,138	12,885	7,557	6,255	820	2,084	5,402	12,175	152,920	10,370	8,702	237,446

I think it can be argued that the campaign inaugurated against venereal diseases during the last few years has already gained a great measure of success in certain directions. In my own County a considerable section of the population, by means of propaganda, has been made to realise the contagiousness and serious results of venereal disease. Table III. shows that we have brought the subject before a quarter of a million people during the last five years. The attitude that even the innocent sufferer should be treated as a social outcast has been broken down. Many of the infected persons, by treatment have been rendered non-infective. The governing bodies of Hospitals are beginning to realise that these diseases can no longer be neglected and that treatment must be provided. The best results have been achieved in the treatment of syphilis, particularly in the male.

The facilities in this County for treatment of infected persons are, with more or less difficulty, within the reach of all. The County Council has issued, free of charge, over 800 railway vouchers to enable persons to travel from their homes to treatment centres. The campaign against the disease, however, requires development in certain directions.

The greatest defects in a number of the present schemes are (a) the lack of proper provision for the treatment of infected children, (b) the lack of proper provision for the discovery and treatment of gonorrhœa in the female, and (c) the difficulty of providing treatment with sufficient privacy for the respectable woman who objects to have to wait her turn in company which is often very mixed and undesirable. It is mainly with the first two defects that I shall deal for a few minutes to-day, as, in a large number of cases, the sufferers are innocent victims and, therefore, most worthy of treatment and consideration.

Before discussing any administrative action it is necessary to know something of the extent of the problem.



(a) *Children suffering from Venereal Diseases.*

These children can be divided into two classes: (1) Children of school age, and (2) Children under school age.

(1) Children of school age :—

About two years ago, I instructed the medical men on my staff working in the Lancashire County Schools and Child Welfare Centres to carry out an investigation into the incidence of the signs of congenital syphilis in children attending the Elementary Schools. It was impracticable to use the Wassermann test in the investigation.

As the result of the clinical examination of several thousands of children, I formed the following conclusions :—

- (a) That the gross manifestations of congenital syphilis in school children resident in the rural districts of the County are very rarely seen.
- (b) That the gross manifestations of congenital syphilis are occasionally seen in the routine examination of school children in the smaller towns (less than 0·15 per cent.).
- (c) There was some evidence that congenital syphilis, which had remained latent, was lighted up by inter-current disease. Thus, one child developed signs of congenital syphilis after measles, and another after the removal of tonsils and adenoids, and
- (d) There were certain cases, but few in number, in which the medical officers thought a Wassermann test necessary before a definite opinion could be expressed.

## (2) Children under school age :—

The medical officers working in the County Child Welfare Centres are unanimous in stating that they see and suspect the existence of syphilis more frequently in the babies attending the centres than in school children, but that it is by no means a common disease in these children. They think, however, from the evidence supplied by their Health Visitors, that the disease has its greatest incidence in the premature and ailing infants which die in the first months of life or remain too feeble and ill to attend the centres. In other words, the infected children die off and do not survive till school age.

Several of the medical officers express the opinion that syphilis is frequently a cause of still-births.

The following statement shows the number of still-births, &c., reported by midwives practising in the Administrative County Area :—

Year.	Total Births in County Area.	No. of Births attended by Certified Midwives practising in County Area.	No. of Still-births reported by Certified Midwives.	Percentage of Still-births reported by Midwives to total Births attended by them.
1914.....	38,507	21,880	498	2.27
1915.....	34,595	20,941	392	1.87
1916.....	32,695	17,069	397	2.32
1917.....	28,420	15,592	361	2.31
1918.....	27,736	14,966	305	2.03
1919.....	28,799	16,240	381	2.34
1920.....	39,767	21,843	479	2.19
1921.....	36,558	19,566	443	2.26
1922.....	32,011	17,046	401	2.35
1923.....	30,672	15,763	359	2.27

There is a strict supervision of the work of certified midwives practising in the Administrative County area, and the record of still-births stated above may be taken as approximately correct. "Still-births" include all infants born dead after the twenty-eighth week of pregnancy.

This table shows that, in spite of the great reduction which has taken place in the post-natal causes of infant mortality during recent years, the causes of ante-natal death remain as potent as ever.

Dr. Cruickshank,\* working at the Glasgow Royal Maternity and Women's Hospital, in a recent report to the Medical Research Council, reaches certain conclusions which appear to be very apposite to the matter under discussion.

(1) "The Wassermann reaction in the child at birth is in close agreement with that of the mother, but during the first few weeks of life the great majority of children born with a positive reaction lose that reaction and not only remain negative to the Wassermann test, but fail to develop clinical signs of syphilis during the first two years of life."

He concludes from this that :—

(a) "A positive Wassermann reaction in the blood of a new-born infant is due at least in the majority of cases to a transference of reacting substances from the mother."

(b) "A positive Wassermann reaction in the new-born infant is of no value in diagnosis."

(c) "The incidence of congenital syphilis is very much less than purely serological data would indicate."

(2) "The effects of syphilis in the mother are seen chiefly in the later months of pregnancy, at which time the disease

\* Cruickshank, John Norman. "Child Life Investigations." "Maternal Syphilis as a Cause of Death of the Fetus and of the New-born Child." (Medical Research Council, 1924).

leads to premature birth and, more particularly, to premature still-birth. As a cause of interruptions of pregnancy in the earlier months, syphilis does not appear to be of predominating importance."

(3) "Many of the signs supposed to be characteristic of congenital syphilis in the new-born are quite inconstant in their presence in definitely syphilitic cases, and others, *e.g.*, splenomegaly are not confined to syphilitic infants."

"The diagnosis of syphilis in the new-born can be made definitely only after a careful review of the clinical, serological and pathological findings."

Syphilis in the child is, of course, the result of syphilis in one or both of the parents in almost every case, and it is necessary, therefore, in any administrative scheme to make provision for securing the examination and treatment of the parents and other members of the family where the child is found to be infected. The work of Findlay in Glasgow, and Adams in London, demonstrates the superiority of pre-natal over post-natal treatment of the congenitally syphilitic infant. If this work is correct, then the pre-natal treatment of pregnant syphilitic women is administratively economic.

(b) *The Discovery of Gonorrhœa in the Female.*

In the rural and small urban districts of under 20,000 population in a large County like Lancashire, the discovery and treatment of gonorrhœa in the female is a very difficult administrative problem. One of the greatest difficulties is our lack of knowledge of the incidence of the disease. The sources of information are meagre. I obtain a certain amount of information as to the occurrence of gonorrhœa in women through the administration of the Midwives Acts.

The following statement shows the number of notifications of ophthalmia neonatorum received since the year 1914 in connection with the work of the County Public Health Department under the Midwives Acts :—

Year.	Number of Notified Cases of Ophthalmia Neonatorum.	Total Births Registered.	Percentage of Cases of Ophthalmia Neonatorum notified to total Births.
1914.....	273	38,507	0.70
1915.....	234	34,595	0.67
1916.....	265	32,695	0.81
1917.....	233	28,420	0.81
1918.....	231	27,736	0.83
1919.....	323	28,799	1.12
1920.....	464	39,767	1.16
1921.....	265	36,558	0.72
1922.....	235	32,011	0.73
1923.....	208	30,672	0.67

It will be noted that the greatest incidence of ophthalmia neonatorum occurred in the years 1919 and 1920, the period of the demobilisation of troops.

The following table shows, for three years, the condition of the eyes after ophthalmia neonatorum, as obtained by re-visits by the County Staff after a lapse of from two to 26 months from the date of the first report. It is our practice in the County of Lancaster to follow up these cases.

	YEAR 1919		YEAR 1920.		YEAR 1921.	
	All "Eye Cases."	Notified as Oph. Neon.	All "Eye Cases."	Notified as Oph. Neon.	All "Eye Cases."	Notified as Oph. Neon.
Total No. of "Eye Cases" reported to the Local Supervising Authority under the Midwives Act .. .. .	447	..	665	..	436	..
Total No. of "Cases" notified as Ophthalmia Neonatorum ..	..	323	..	464	..	265
Information regarding condition of eyes after a lapse of from 2 to 26 months from date of first report :—						
Totally Blind .. .. .	2	2	3	3	2	1
One Eye Blind .. .. .	1	1	..	..	..	..
R. Blind—L. Keratitis .. .. .	..	..	1	1	..	..
R. Blind—L. Nebula .. .. .	1	1	1	1	..	..
L. Blind—R. Nebula .. .. .	1	1	..	..	..	..
R. Blind—L. Normal .. .. .	2	2	..	..	1	1
L. Blind—R. Normal .. .. .	..	..	2	2	1	1
R. Nebula—L. Normal .. .. .	1	1	3	3	1	1
L. Nebula—R. Normal .. .. .	2	2	4	4	3	3
L. Large Opacity—R. Normal ..	1	1	..	..	..	..
R. Squint—L. Normal .. .. .	..	..	2	2	..	..
L. Squint—R. Normal .. .. .	..	..	3	1	..	..
R. Weak—L. Normal .. .. .	..	..	1	1	1	1
L. Weak—R. Normal .. .. .	..	..	1	1	..	..
Both Eyes—Weak .. .. .	5	4	10	9	3	2
Adherent Iris .. .. .	..	..	1	1	..	..
Occasional Conjunctivitis .. ..	1	1	..	..	..	..
Marked Internal Squint .. .. .	1	1	..	..	..	..
Slight Opacity (one eye) .. ..	3	1	1	1	..	..
Left Eye Defective .. .. .	1	1	..	..	..	..
Miosis .. .. .	1	..	..	..	..	..
Vision Unsatisfactory .. .. .	1	1	1	..	..	..
Eye Discharging .. .. .	5	3	1	..	..	..
Eyelids Inflamed .. .. .	2	2	3	3	1	..
R. Squint, Eyes Discharging ..	..	..	1	1	..	..
R. Blind—L. Myopia .. .. .	..	..	1	1	..	..
Corneal Opacity (both eyes) ..	..	..	1	1	..	..
L. Blind—R. Defective .. .. .	..	..	1	..	1	1
L. Blepharitis—R. Normal .. ..	..	..	..	..	1	1
Blepharitis (both eyes) .. ..	..	..	..	..	1	..
R. Defective .. .. .	..	..	..	..	1	..
Eyes—Normal .. .. .	345	240	533	362	355	205
Children Deceased .. .. .	31	26	67	51	50	37
Left District—No information, or still under treatment ..	40	32	23	15	14	11
	447	323	665	464	436	265



On examination of the details obtained in the inquiries into ophthalmia cases the following facts were ascertained :—

Extending over a period of  $6\frac{1}{2}$  years :

The average interval of time between the birth of the child and the onset of the disease (ophthalmia neonatorum) was 6·05 days.

The interval between onset of disease and the date on the record sent by the midwife to the medical practitioner was 1·36 days.

The interval between onset of the disease and the date of notification of the case, under the Ophthalmia Neonatorum Regulations, was 4·29 days.

The length of time between the date on the Medical Help Record (first report of the case) and the date a doctor first saw the child (commencement of treatment) was 1·25 days.

The investigations carried out by the Inspector of Midwives, Health Visitors, and Assistant County Medical Officers show that many of the severe cases of ophthalmia neonatorum are due to gonorrhœa in the mother, but the data are insufficient to express as a percentage the incidence of gonorrhœa in notified cases of ophthalmia.

I also receive certain information from certified midwives. It is their duty under the rules to call in a medical man in cases where they discover purulent discharge in pregnant women. There are 663 midwives practising in the County area at the present time, and the number of records received from midwives in respect of these conditions in the year 1922 for "purulent discharge" was twenty. It is unlikely that these figures represent the true incidence of gonorrhœa in pregnant and parturient women attended by certified midwives, but medical practitioners inform me that they also see very few

cases in pregnant and parturient women in the rural and small urban districts, and they further state that they see very few cases either in adult males or females.

The Assistant Medical Officers and Health Visitors report to me very few cases of gonorrhœa in females, either at the infant welfare centres or during their home visits. It is my experience, therefore, that it is very difficult to estimate, with any approach to accuracy, the amount of gonorrhœa existing in women in the rural and urban districts of Lancashire.

#### THE TREATMENT OF WOMEN AND CHILDREN.

The provision of treatment for women and children suffering from venereal disease in a large County with 121 separate urban and rural districts is a difficult administrative problem.

The problem in a large town is comparatively easy where there is a well-equipped Hospital containing special departments for women, children, and persons suffering from venereal disease, such as are seen in the large London Hospitals. The gynæcologist seeing a case of venereal disease, or the physician in the children's department seeing a syphilitic child, can co-operate with the Director of the Venereal Diseases Department and through the lady almoner knowledge is gained of contacts to be followed up.

In the smaller districts of Lancashire there are either no Hospitals, or they are not suitably equipped. The respectable married women generally will not attend the treatment centres provided in the large towns, nor will they take their children.

In the textile towns a large number of the women are engaged in industry, and the wife of the coal miner is a hard worker. The provision and cooking of meals for perhaps several workers on different shifts, the care of their working clothing, and the bringing up of a family leave very little spare time for the coal miner's wife.

I think provision for the treatment of syphilis in women and children might be made in certain of the existing child welfare, ante-natal, and school clinics where it is possible to make proper arrangements.

In one of the combined child welfare and school clinics in a small urban district in Lancashire, I was able for a time to arrange for the treatment of syphilis in children. The final results were good.

The numbers would not be large in any particular district, and the patients could be seen regularly by appointment. There could by this method be a close co-operation between School Medical and Child Welfare Medical Officers, Inspector of Midwives, Health Visitors, School Nurses, Midwives, &c., and the Venereal Diseases Medical Officers treating the cases. Ophthalmic cases of syphilis in children, such as keratitis and choroiditis, should be treated by ophthalmologists.

The treatment of gonorrhœa in women in County districts is a much more difficult problem, for the following reasons :—

- (a) Gonorrhœa requires daily treatment.
- (b) It is not advisable from a surgical standpoint to treat gonorrhœa in the same department at which young children and babies attend.
- (c) There would be a danger of bringing the centre under the label “ venereal.”

The discovery of a specific treatment for gonorrhœa would simplify the administrative problem in County districts. It is the exacting nature of the present mode of treatment which creates the main difficulty.

Public Health Department,  
County Offices, Preston.  
May, 1924.

